TSS Logs for Sony Television Products					
BRAND	MODEL	Chassis	KEYWORD	SYMPTOM	CURE
Sony	KV36XBR250	AA-2W	16X9 mode	Customers DVD player always plays back in 16X9 mode. Customer has JVC DVD player. Disc plays back in 16:9 customer selects 4X3 mode on their DVD player but TV stills displays 16X9. The JVC DVD player puts out ID signal even when no 16X9 is available. When the Sony TV detects this special ID signal it automatically puts the TV in to the 16X9 mode. Compression Mode. Customer must now select modes manually on their DVD player.	This auto feature can be turned off but only in the Service Mode. Change ID7 from 9 to 8. This is the No Auto V. Customer must now select modes manually on their DVD player.
Sony	KV32S40	AA-2	A.C. Hum	KV32S40 serial 9028282 that has a low level audio hum in the video input or tuner mode. Looked in the FPR on web site but could fine nothing on the subject. The hum is at 60 Hertz	The hum is a result of magnetic flux from the vertical deflection yoke. The 60 hz is radiating into the low level audio circuits through inductive pick up from lead dress and ground loops. To minimize these Remove JW086 and JW1007.Add 22AWG wire from JW270 to ground side of R477. This wire should be on the top side of the A-board and routed to following the audio signal lines from IC1401 (audio processor) to the amplifier IC1461.
Sony	KV27V66	BA4	A.C. hum	Unit has a slight 60 Hz buzz in the speakers. When in the external input mode and no signal applied the hum is evident.	I asked tech to check to see if the upgrade listed in CSV #397. Jumper are present in the correct spots of the "K" board. Tech can measure 9.6 volts buzz at speaker terminals. However with the speakers disconnected the customer still claims to hear the 60 hz buzz. It this is true the tech needs to look into the deflection yoke for a cure the buzzing. By putting pressure on the yoke, the tech can try to eliminate the vibration in the yoke assembly caused by loose laminations.
Sony	KV27V10	AA-2	AC leakage claim	KV27V10 serial 7104657. When the CATV rep was out a few days ago he plugged in the set in to wall and when the prongs made contact with the AC wall outlet a small spark was seen. The CATV rep exclaimed, "The television is a fire hazard, and you need to call for service!" He left the set unplugged and we went out on this day.	Our tech plugged in the set and found the set did have a spark as soon as the set was plugged in the AC outlet. This is perfectly normal because this chassis has to fully charge 2 820 mfd electrolytics in a voltage doubler configuration. This causes a tremendous amount of in rush current that may draw several amperes until the filters are charges up. This will cause a contact arc the moment the set is connected to the AC line. This set poses no more fire hazard than any other electrical device that plugs into the AC outlet. We also performed an A.C leakage test on the chassis and found that it was less than .015 volts measured at the customers ground connection and neutral.
Sony	KV32V40	BA4	acoustal vibration	KV32V40 serial Unit has an acoustical vibration on certain frequencies.	Tech will need to go out with an variable audio tone generator to see where the source is of this mechanical vibration. Once found the tech must apply a special tape to the mating surfaces of the cabinet parts that are vibrating as stated in bulletin 244R1. This bulletin does not actually apply to this model but the approach to the repair is the same. Part # of the tape necessary for this job is 7-632-661-51

Sony	KV27XBR10	FN	AFT	KV27XBR10. Serial 7009564. Unit has AFT drifting as soon as the channel is addressed. It never stops the AFT search	Unit needs to have the IF/Demodulator module removed from it's shielded compartment and resolder all the adjustable tuning transformers. The AFC coil/transformer has ring fractures around the pins that protrude through the circuit board.
Sony	KV27V40	BA4	all snow	KV27V40 Unit will not change channels. The number changes but the set will only display a all snow image. Tech replaced the tuner and it did not solve the symptom.	Tech needs to check the SDA And SCL lines to the tuner. When the set is on the Clock line at the tuner has a pulse but the SDA is Low. No data pulses. Unit had a scratched trace leading to the tuner assembly/ Jumpered trace and tuner now runs correctly.
Sony	KV32V25	AA-2	arcing	KV32V25 serial 7036251. Unit has an arcing inside the flyback transformer. Tech replaced the transformer now the unit has a bright band at the top of the screen. The tech replaced the jungle "IC without effecting the symptom	Tech noticed the +15 volt source was lower than expected. It was only 10 volts. It is not unusual. The voltage is normally 12 volts. What the tech was missing is the -15. This voltage must be there in order for the set to have any vertical sweep. D530 was shorted and open R536 the 0.47 ohm current limitter.
Sony	KV32V26	AA-2	arcing	KV32V26 serial 8019814. Arcing in the neck off CRT	Tech will need replacement CRT A80JYV51X
Sony	KV35V76	AA-2	ARCING	KV35V75 CRT is arcing in the neck	The CRT is bad.
Sony	KV35XBR48	AA-2	ARCING	KV35XBR48 serial 9014229. TUBE ARCING IN THE NECK	unit will need CRT A89LJT80XZ
Sony	KV36XBR200	AA-2H	arcing	KV36XBR200 Unit has an intermittent arc over that will shut down the television.	The best way to tell if the arcing is related to the HV lead which may be breaking down is to use a high voltage probe. Connect the ground to the CRT ground and run the tip of the high voltage probe over all high voltage connections & wires. If an arc is drawn to the probe tip this would mean that a break down in the insulation has occurred. This test revealed a break down in the High voltage connection at the High Voltage anode button. The silicone sealant did not seal between the HV button and HV cup. Cleaning the area around the anode button, replacing the anode cap and resealing the connection with high voltage silicone sealant.
Sony	KV27S20	AA-2	Audio	Sony KV27S20. Unit has a low pitch whine in the left audio channel.	Problem is best heard in the video input mode with no signal put to the input. It can be seen with an oscilloscope on one of the output pins of IC1401 but not on the input. Part number is 8-759-369-39. IC1401 corrected the trouble.
Sony	KV27S36	AA-2	audio	Sony KV27S36. Unit has choppy SAP audio. Stereo 0.K.	All SAP, Stereo, and mono functions come from the Tuner assembly and nowhere else. If a problem exists for the S.A.P. feature all circuitry relating to the feature is replaced when the tuner assembly is replaced. Recommend the Tuner/IF/MTS decoder assembly. Replacement corrected the symptom.
Sony	KV27S45	AA-2	AUDIO	KV27S45 serial 8046950 Unit has a very rapid change in volume when increasing the level from minimum to 4 notches above minimum	Tech needs to add a resistor in parallel with R432 to effectively reduce the value of R432. This changes the voltage divider ratio to the volume control circuit and makes the volume circuit more linear in operation.
Sony	KV27V65	AA-2	AUDIO	Audio level adjustments will not increase in a linear fashion, instead the audio will increase rapidly in the first 1/3 of the bar graph.	A new microprocessor is available for this unit. It is part number T-998-600-32. It replaces the original IC001 which was M37273MF-251

Sony	KV27V65	AA-2	audio	Sony KV27V65 Sound does not ramp up correctly. Seems to get very loud as soon as the volume gets higher in a very short time	I had tech get into the ID codes and reset ID2 from 239 to 175 and ID 4 from 130 to 194. Then initialize the EPROM . Set returned to normal operation
Sony	KV32S65	AA-2	audio	KV32S65. Serial # 8014575. Sound and picture is fine but when the fixed or variable audio out is connected to an external audio amp and the set is muted a loud pop is heard in the right channel.	I had the tech try to measure if there was any DC voltages that resided on the Variable audio output connectors. There was "4.5" volts on the Right channel and "0" volts on the left channel. When the "Mute" transistors on the variable line triggered they pulled both lines to ground. When the external amp was connected to this circuit the input capacitor for the right channel charged with this 4.5 volts. We still had audio on this line even though it was at a 4.5 vdc potential. But when the Sony muted, the input capacitor inside the Big External amp discharged and caused a tremendous pop. C172 is a .47mfd used to decoupling the audio from IC101 the Variable audio control IC. This capacitor had 4.5 vdc on each leg measured to ground. Removing the capacitor and measuring the DC resistance across the cap measured 175 ohms. Replacement of the capacitor corrected the symptom.
Sony	KV32XBR10	ANU-1	AUDIO	Unit has no audio	8-741-592-2 (8-741-100-56) original number SBX1592-02 corrected the symptom
Sony	KV27V40	BA4	audio	KV27V40 8024539 Unit goes looses audio on voice peaks or when ever the volume is moved to a high position the volume will mute for about 1 second	When Isolating the mute transistors I find that removing the Coupling capacitor C223 stops the muting action. This capacitor appears to be monitoring the B+ used for the audio output IC. We do have a slight fluctuation of voltage 0.3 ~ 0.5 volts to the audio output when the volume is maximized out. this is coincident to load variations of loud to soft sounds However when this variations reach the 0.5 volt deviation the audio will mute. R210 is good and so is Q204. We replaced C223 with a new one and even tried to reduce the value to 1 mfd but we still get the same muting effect on voice peaks. IC401 has been replaced on an earlier visit with no changes in the symptom. It is unknown why this is causing this symptom.
Sony	KV27V65	BA4	audio	KV27V65. Unit has a 60 hz buzz in the audio will near minimum level is selected	Tech needs to add a ground wire to the ground side of R544 to the ground under the flyback transformer
Sony	KV27V16	BA5	Audio	Unit has no audio, but when entering the service mode the audio returns. After resetting the EEPROM the set enters the reset mode normally but the sound is gone again. Tech replaced IC001,IC003 and K-board, without effecting the symptom.	All had checked all voltages on the IC301 and everything looked normal. Out of desperation the tech ordered the IC301 and changed it. Tech changed the jungle IC301 and it fixed the problem. This answer might save someone some time? The tech was very happy to let this baby go home after wrestling with it for many hours! **Thanks to Jesse Mann (L. A., California)**

Sony	KV24FS100	BA6	Audio	Problem: Volume control doesn't work. Volume bar OK just volume stuck in high / loud audio.	Solution: Replace IC404 - audio output. Sony installed wrong IC. Instead of AN17820A they installed AN7125Z. The correct part # is 6-701-104-01 (AN17820A) I had already three units with the same problem. All of them KV24FS100 (BA6), serial number 4108227,4108225,4108261.
Sony	KV32TS27	LN1	audio	KV32TS27 7039676 Unit has an intermittent squeal in the audio when trine to receive a stereo broadcast.	Tech needs to replace the Audio IC SBX1627-11
Sony	KV27S42	BA4	AUTOPROGRAM	KV27S42. Serial 411756 Unit does not autoprogram. When using direct access to change channels the set will execute channel change but takes nearly 4 seconds before it will lock in. channel the set will access it	All TV's that use autoprogramming must have 2 inputs to the CPU that will tell the CPU it will store a channel in its memory. These inputs are AFC crossover voltage & presence of horizontal sync. The AFC get the frequency of the video carrier centered in the passband of the IF. The horizontal sync is used to validate the signal is a non-scrambled video signal. This television did not have the Horizontal sync from IC010, an HSYNC-SW. This device is used to detect valid horizontal sync from both tuners. There was composite video at IC010(1) but there was no output on IC010(7). Neither one of the tuners had good channel lock in characteristics. Suggest the tech check out IC010. IC)10 had a contaminate under the chip. It was a light brown compound that covered all pins under the IC. The contaminate was removed and the old Chip reinstalled and the set operated normally.
Sony	KV35XBR35	AA-2	B&W Tracking	KV35XBR35. Unit has color temperature error in the YUV input mode only	According to Sony tech support there is no adjustment for this input. Refer this customer to Sony customer affairs.
Sony	KV27S22	AA-2	BRIGHT RASTER	KV27S22 serial # 8102548. Unit goes to a bright blue screen with retrace lines then shuts down.	Unit has a defective CRT. When unit is able to turn back on again the set will sometimes be in the video input mode.
Sony	KV35S26	AA-2	CHROMA	KV35S26 Unit has the tint phase shift and color lock up problems only on the Hughs satellite receiver. VCR and over air signals have solid color lock up.	This symptom acts like it is a problem with the satellite receiver. Inside the satellite receiver there is a NTSC encoder which injects the 3.579547 MHz color oscillator signal in the video. If this oscillator is too far off frequency it will not phase lock with the 3.579545 MHz in the television. This is a software problem with the Satalite receiver. A software download will be available to all receivers in Late 2000 to correct this problem.
Sony	KV35S26	AA-2	chroma	Unit has random chroma phase shifting. The tint will vary radically. NTSC color bars are not stable. "Barber Polling" effect of colors on bars.	Suggest the tech look very close to the connection s to IC351(4) This the Chroma AFDC filter. Components R354, C354, & C355 are in the AFCFIL circuit. It is possible the trouble is a Jungle IC but Before replacing it is recommended to check the aforementioned components first. Note: when checking the components it was found that C354 has glue touching each end of the device. The glue effectively changed the value of the device. Cleaning the glue and reinstalling the device corrected the problem.

Sony	KV35XBR200	AA-2	CHROMA	KV36XBR200 When the customer is using the RF input labeled VHF/UHF the set will picture will lose chroma intermittently. But when using the AUX input the chroma is solid and does not vary. The tech replaced the RF switch without effecting the symptom.	The customer is using two different RF sources. Cable TV and a satellite dish. The CATV is being feed into the RF input labeled VHF/UHF and the satellite is fed into the AUX input. It appears the tuner does not correct the AFT when two different RF sources are used. The channel will has to be readdressed again for any AFT correction to occur. Suggest the customer used the satellite in the S-video and separate video input mode. In his present configuration the customer is loosing all stereo reception, and all high frequency detail over. This corrected the symptom.
Sony	KV35XBR48	AA-2	CHROMA	Unit is connected in to component video input mode through a DVD player. The picture has a predominately green picture	When operating a different DVD player the symptom is the same. There is no cure to this phenomin from Sony at this time
Sony	KV27V66	BA4	clock	KV27V66 serial Unit looses 3 minutes a in 2 weeks on the internal clock in the television	The clock should remain within 7 seconds + or minus in a seven day period. The time base is from a crystal and the count down circuit inside the microprocessor. Suggest the tech replace the crystal, and the two padding capacitors in the crystal network.
Sony	KV27S20	AA-2	CLOSED CAPTION	KV27S20 serial # 7042141 Unit will not operate in the closed caption mode if using the DVD player. However if the television operates in the tuner mode for over the air telecasts, closed caption works fine.	Tech needs to order IC001= T-935-001-61 per bulletin R329R1. After replacement the tech will need to enter the tech menu and select "CRIW" and change it from 15 to 3. Also check the "LBLK" must be 7, "RBLK" must be 7 and "HBSWO" must be 0. At this point save the new data and exit the tech menu.
Sony	KV27V20	AA-2	CLOSED CAPTION	KV27V20 8015729 No closed caption on premium channels	The tech needs to set the ID codes to the following ID0=25, ID1=19, ID2=47, ID3=0, ID4=27, ID5=3, ID6=0, ID7=0. If these are OK then the tech will need to replace the IC001 with an upgraded version per bulletin 329R1 Original generic # is CXP85640-004S, the new generic # is CXP856P40S-1 part number T-935-001-61
Sony	KV27V20	AA-2	CLOSED CAPTION	KV27V20 serial 8015729 Unit does not have closed caption on premium channels	See Bulletin 329R Original CPU CXP85640-005S The new device is CXP85640-006S
Sony	KV27V20	AA-2	CLOSED CAPTION	No closed caption on premium channels	The tech needs to set the ID codes to the following ID0=25, ID1=19, ID2=47, ID3=0, ID4=27, ID5=3, ID6=0, ID7=0. If these are OK then the tech will need to replace the IC001 with an upgraded version per bulletin 329R1 Original generic # is CXP85640-004S, the new generic # is CXP856P40S-1 part number T-935-001-61
Sony	KV27V20	AA-2	CLOSED CAPTION	Sony KV27V20.unit has intermittent symptom of closed caption coming up on screen. Cust claims they cannot turn off the closed caption option.	Unable to see any problem with circuitry, and ID codes are correct. All appears normal. Setting all CC1 ~ CC4 and teletext 1 and 2 to the "Minus" option this effectively shuts off the closes caption feature. Instruct customer to operation od CC modes.
Sony	KV35V75	AA-2	CLOSED CAPTION	KV35V75 9006691 Unit does not have closed caption on premium channels	Original CPU CXP85640-005S The new device is CXP85640-006S CPU was replaced and did not correct the symptom.
Sony	KV32V15	AA-2	color banding	Sony KV32V15 serial 9013716 AA-2D Unit has horizontal banding of purple and red at top of screen. If the color was reduced the banding would disappear. Color bar did not have a normal appearance	Resistor R354 was not soldered in correctly. The resistor is in the Color AFC circuitry. It had a .15 ms ripple on it causing a phase shift in the chroma in the first 4 to 5 inches on the picture. Problem was caused by a glue used to secure the surface mounted resistor. The glue prevented a good connection of the resistor to the pad. Cleaning the glue away and resoldering corrected the symptom.

Sony	KV32XBR45	AA-1	CONVERGENCE	KV32XBR45 convergence is way off in the horizontal direction	Unit has an open R789 a 18 meg 1/2 watt resistor for the Horizontal static convergence. The tech will have to make a resistor out of 3, 6.2 meg resistors.
Sony	KV32XBR45	AA-1	CONVERGENCE	KV32XBR45 Unit has convergence of all vertical lines are displace horizontally. Tech replaced the CRT without authorization. This did not solve the symptom	Suggest tech look for R789 and see if it is open It is on the on "C" board. It The value is around 10 meg. There are two different chassis and CRTs used for this model. If they have the older chassis type that requires H stat convergence (CRT board has H stat control) they need to order the older CRT as per the manual. If newer type (No H stat) then the new CRT as per Service Manual supplement -1 is needed. CRT 8-733-743-05 The H Stat is done using the Yoke ring magnets. I have attached the two Service Manual supplements, and the SB325R1.
Sony	KV32XBR45	AA-1	CONVERGENCE	KV32XBR45 Unit has sever Horizontal static convergence error. Tech replaced the CRT without authorization. This did not solve the symptom.	Suggest tech look for R789 and see if it is open It is on the on "C" board. It The value is around 10 meg. There are two different chassis and CRTs used for this model. If they have the older chassis type that requires H stat convergence (CRT board has H stat control) I have attached the two Service Manual supplements, and the SB325R1. However none of them have show this resistor. We were able to install a resistor in this unit that was a two 10 megs in series. Trimming the value by adding another 10 meg in parallel with one of the other 10 megs. we were able to converge the set. Original part was not available.
Sony	KV32XBR45	AA-1	CONVERGENCE	Unit has mis-convergence of red and blue vertical lines. They are displace horizontally. Tech replaced the CRT without correcting the symptom.	R789 open H-state not operational. What I'm finding is a resistor that appears to be open on this "C" board It is R789 The value cannot be read nor is it listed in the ESI software parts list. Trying another value from 10 to 20 megohms. This resistor is in the ground return of the H-stat resistor that is installed in the CRT. Tech needs to try different values to try and make this set converge horizontally. This TV converged with a 10 megohm resistor.
Sony	KV32XBR45	AA-1	CONVERGENCE	Unit has nis-convergence of red & blue vertical lines which are displaced horizontally. Tech replaced the CRT. This did not solve the problem.	Suggest tech look for R789 and see if it is open It is on the on "C" board. The value is around 10 meg. There are two different chassis and CRTs used for this model. If they have the older chassis type that requires H stat convergence (CRT board has H stat control) they need to order the older CRT as per the manual. If newer type (No H stat) then the new CRT as per Service Manual supplement -1 is needed. CRT 8-733-743-05 The H Stat is done using the Yoke ring magnets.
Sony	KV27V22	AA-2	CONVERGENCE	KV27V22 serial # 8051260 will not converge the bottom red green or blue horizontal lines	Unit has over 6 permaloy magnetic on the CRT bell in the area of the bottom of the yoke. This is not a good sign. It is also a rebuilt CRT. We are not going to place more Permaloy strips on this CRT. It needs replacement.

Sony	KV27V40	BA4	CONVERGENCE	KV27V40 Unit has vertically skewed convergence. Center vertical convergence is Skewed with red skewed counter clockwise by 0.5 inches and blue skewed clockwise by nearly the .05 inched. Green lines are straight.	Problem is caused by a defective CRT.
Sony	KV35S40	AP	CRT	Unit has preglow at the instant the television is turned on. The preglow shows in the lower left and right hand corner and stays until the raster appears.	This phenomena is normal and is caused by the IK pulses that are produced at the instant of turn on. Even thought the cathodes are not completely warmed up there will be a slight amount of beam current produced by just the IK pulses. Since these pulses are at the top portion of the tube or on the curved funnel portion of the CRT this symptom is common and is not considered a defect in the CRT.
Sony	KV32XBR76	FN	Cycling on an off	Unit cycling on and off as soon as the set is plugged in.	This set was an older unit has seen many hours of use. The tech was instructed to ESR all electrolytics in the power supply. After ESR'ing all the electrolytics we found that C662 in power supply was open. Its ESR was infinite. Value was supposed to be 220mffd@ 35 vdc.
Sony	KV32TS36	AA-1	Dead	KV32TS36 unit is dead. Tech replaced Q601, Q602, & R607. Then put full power to the set and blew out all the same components again.	I had the tech check the Secondary of the T605 for shorts. Also check to see if the horizontal output is shorted. Did not find any shorts in the horizontal but the driver transformer had small ring fractures around the secondary pins. Resoldered these pins and started the set up again with a 40 watt light bulb in place of R607. The set operated with reduced secondary voltage and cycled on and off at about a 3 second rate. During the cycling the collector signal at Q501(C) was normal. Replaced the light bulb with a new R697 and the set ran fine.
Sony	KV32TS46	AA-1	Dead	Unit was dead. has shorted horizontal output and shorted Q601, & Q602 components in power supply replaced. After replacement unit will turn on but still has no secondary voltage output of power transformer. All relays click but no high voltage. Has sound.	Tech needs to check the condition or RY602. RY602 is the switching relay that turn on and off the set. The relay is "HOT" switched. In other words one side of the relay is connected to power oscillator output that runs nearly 350 vac Peak to Peak at 90Khz. Once the relay is closed this energy is placed across the power output transformer and provides the drive necessary to produce the B+.Measuring the input voltage of the relay to "HOT' ground found it to be 150 volts DC mode. But on the other side of relay we has 3 volts DC mode. Unit has defective RY602 relay.
Sony	KV27V65	AA-2	Dead	Unit is Dead Tech replaced the IC601 and R607 and the Flyback, but when power was reapplied the set destroyed the power supply again.	Unit had a blown IC601 and R607. Tech had failed to check the condition of the Power supply output for the 135 vdc source.. It was discovered there was a 1.2 ohm short to ground caused by a shorted protect diode in the secondary of the power supply. I cannot stress enough the tech needs to check all loads on the secondary of the power supply for shorts, and use a variac to start up all power supplies. All parts changed earlier are destroyed and need to be replaced again.

Sony	KV32S40	AA-2	Dead	KV32S40 serial 8001469. Unit had the power supply IC601 shorted and open R607. Tech replaced these components and it shorted out again at the instant the television is plugged in.	I never recommend that after replacing these components in the power supply that the set have full line voltage applied to it. The odds are very high the new components will be instantly. Suggested the tech use a variac to do these tests. This power supply should start running at 10 vac as a line source. The current should never go above 100 ma during a no load test. Max 800 ma during a normal load. When running this power supply at 15 volts the current was surging to over 200 MA. Checking al the loads on the secondary found no obvious short circuits. However when checking the capacitors in the primary we found C610 has internal resistance of 470K, There should be no internal resistance. Replaced C610 and restored normal operation. Suggest that C609, C610, C611, and C612 be automatically replaced when this happens.
Sony	KV32S40	AA-2	Dead	KV32S40 Unit will run for several days then it will short the horizontal output transistor and destroy the power supply IC601	This product was brought into the shop where the set was operated with the CRT disconnected for approximately 100 hours continuously. It ran fine. But 6 hours after the CRT was connected the Horizontal output and power supply self destructed again. Unit has defective CRT Suggest the tech replace the CRT
Sony	KV32V40	AA-2	Dead	KV32V40 Unit was originally dead. Q502 was replaced. Now set has a sever over scan of horizontal sweep. Collector of Q512 only 2 volts Q512 was shorted. L511 is burned and needs to be changed, along with D504 D503, D502, C511, C513, and L511.	After replacement of the components the sweep was still excessive. When using an oscilloscope on the IC351(31) the E/W pin out we found 6 volts DC, and no 60 HZ parabolic wave form. If this E/W output pint was touched to ground through a 270 ohm resistor the picture narrowed up to a an almost normal width. Product had defective IC351.
Sony	KV32XBR48	AA-2	Dead	KV32XBR48. Originally dead with shorted IC601 converter IC and horizontal output transistor shorted too. The horizontal drive looked odd, but this was not the problem.	Checking the Collector of the Horizontal output transistor the retrace period was running in excess of 20 microseconds not the traditional 11.5 microseconds. Closed inspection was found the deflection yoke leads inside the connector were loose and the crimp for the wire to the horizontal winding were not making contact to the terminal inside the connector. Cleaning the terminal and prepping the connection was necessary because there was evidence they were burned by the voltage drop in the poor connection .
Sony	KV32XBR48	AA-2	Dead	Originally dead with shorted IC601 converter IC and horizontal output transistor shorted too.	Checking the Collector of the Horizontal output transistor the retrace period was running in excess of 20 microseconds not the traditional 11.5 microseconds. Closer inspection found the deflection yoke leads inside the connector were loose and the crimp for the wire to the horizontal winding were not making contact to the terminal inside the connector.
Sony	KV35S26	AA-2	Dead	KV35S36 serial 9027801 Unit goes dead after 10 minutes after the power supply was repaired.Q601 & Q602 were not running hot they just shorted. They were replace 4 times. Each time the transistors lasted 10 minutes and in 1 case 1 week.	After running the television for over 1 hour with the CRT disconnected It was determined the power supply, deflection, and horizontal deflection were all working. It was further decided to change the CRT needs to be replaced. CRT fixed the unit.

Sony	KV36FV1	AA-2	Dead	KV36FV1 serial 9029271. Unit is dead. After talking to customer they explained that they had a power surge caused by a car hitting a power pole.	The set was completely dead. VDR602 was noticeably burned up. Cutting this device our of the circuit found that it was open. However the device is connected in the circuit like a metal oxide varistor. It should measure open since it is in parallel with the A.C. Line. It was discovered that no other shorted components could be found in the primer of the power supply. Main line fuse **WAS NOT BLOWN!** Checking the raw AC voltage on the AC Line filters T601, and T602 find that we have no AC voltage on the output of T602 but present on the input side. Isolating the open coil and removing the defective VDR602 allows the set to turn on and operate correctly. Tech will need to replace T602 and VDR602.
Sony	KV27XBR15	ANU-1	Dead	Sony KV27XBR15 ANU-1 chassis Unit is dead. Unit had all 3 regulators loose. All had ring fractures. Once resoldered the set still did not turn on because of a short to ground on the 135 vdc line.	Horizontal output is also shorted. ?This unit requires a modification to the horizontal output section KIT # T-998-566-41. This Kit consists of a 2SC4927 and a .68 ohm resistor that must be used in the emitter of the horizontal output transistor.
Sony	KV27S40	BA4	Dead	KV27S40 Unit is dead. Will not turn on LED flashed 5 time . The set will latch the relay but will not develop secondary voltages from the main power supply	Checking the secondaries of T603 we could not find any short circuits on the se The needs to connect a variac up to the television and supply 18 volt AC. A jumper need to be installed across the contact connections of RY602 in the A" board.
Sony	KV27S45	BA4	Dead	KV27S45 VDR5050 Unit dead. Inspection of the chassis discovered there is no stand by voltage. Inspecting the "E" board found that the fuse F5050 was open and the VDR5050 had a chunk of material blown off of it.	VDR5050 is metal oxide varistor. It is in parallel with the AC line voltage . It appears the customer had a AC line source that blew the MOV, then the fuse. Checking Q5001 we do not find a short between Drain and Source. Suggest the tech remove the MOV and replace the fuse and try operating the set. It operates fine. Suggest the tech replace the MOV, but disable the television until the MOV can be replaced, since the MOV is a Protection device in the event the Power surge returns. NOTE: It was discovered the VCR was also dead which not was not evident at the time of the call. This confirms the power surge theory. VDR5050 = 1-801-074-41 F5050 =1-576-193-11 6.3 amp @ 125vac.
Sony	KV27V40	BA4	Dead	KV27V40 8112963 Unit is dead. Only the Timer LED flashes.	There are apparently no shorts circuits on the secondary of the main switcher supply. However when trying to discover why the IC601 was shorted we could not find any evidence of line surges that might have shorted the VDR601 or open R618. But when checking the secondary of the Flyback transformer at the outputs of D560 and D561 we found nearly 4.6 ohms from the +13 to the -13 volt source. Floating IC541(2&4) removed the shorted condition. Unit has a shorted vertical output IC541 shorted from the +13 volt to the -13 volt if IC541(2 &4)

Sony	KV27V40	BA4	Dead	Unit is dead. Only the Timer LED flashes.	There are apparently no shorts circuits on the secondary of the main switcher supply. However when trying to discover why the IC601 was shorted we could not find any evidence of line surges that might have shorted the VDR601 or open R618. But when checking the secondary of the Flyback transformer at the outputs of D560 and D561 we found nearly 4.6 ohms from the +13 to the -13 volt source. Floating IC541(2&4) removed the shorted condition. Unit has a shorted vertical output IC541 shorted from the +13 volt to the -13 volt if IC541(2 &4)
SON	KV32FS13	BA5	DEAD	Main Power supply will not produce secondary voltages. When powered up the set will turn on but the will "Chirp".	Q502(C) pulse was corrupt. More testing in the we found the Damper diodes D501 & D504 were shorted along with the pin modulator transistor Q504. Parts necessary to fix this unit was; D501 & D504 pn# 8-719-545-80 Q504 pn# 8-729-053-87 Q502= 8-729-046-07.
SON	KV32FS13	BA5	DEAD	Main Power supply will not produce secondary voltages. When powered up the set will turn on but the will "Chirp".	Checking around the flyback transformer and horizontal output with an oscilloscope we found the horizontal pulse was corrupt. This was measured on Q502(C) Further checking we found the Damper diodes D501 & D504 were shorted. This condition also directed us toward the pin modulator transistor Q504 which we found shorted. Parts necessary to fix this unit was D501&D504 pn# 8-719-545-80 and Q504 pn# 8-729-053-87.
SON	KV32FS13	BA5	DEAD	Main Power supply will not produce secondary voltages. When powered up the set will turn on but the will "Chirp".	Checking around the flyback transformer and horizontal output with an oscilloscope we found the horizontal pulse was corrupt. This was measured on Q502(C) Further checking we found the Damper diodes D501 & D504 were shorted. This condition also directed us toward the pin modulator transistor Q504 which we found shorted. Parts necessary to fix this unit was D501&D504 pn# 8-719-545-80 and Q504 pn# 8-729-053-87.

Sony	KV24FV300	BA6	DEAD	This TV RAN and for approximately ten hours and then shut down. The standby supply is running because the relay RY600 will latch, But RY501 will not latch. LED in front is blinking 4 times then stoppsWhen measuring the presence of B+ at IC600(18) referenced to hot ground, it was missing. Main supply was not oscillating.	All conmponents Q600, Q601 are not shorted. B+ at Q600(D) was 345 vdc. Checking R640 a 1K resistor found it to be open. It was suggested that R640 and IC600 be replaced. IC600 Pn# is 8-759-670-30. Replacing the devices corrected the problem.
Sony	KV24FV300	BA6	Dead	IC600 and R640 blown.	Here is the problem; An arc occurs from the CRT dag to the heatsink of Q600 because it sits so close to the Dag. The heatsink is isolated from ground so the arc has no where to go but to the closest point to the heatsink. This point is IC600(18). The arc kills IC600 and subsequently burns up R640, a 1K at 1/2 watt resistor. Replace the defective components then add a 100K resistor from the heatsink to ground. Directions are located at this link. http://wa6ati.home.mindspring.com/BA6-IC600-Countermeasure.pdf .
SONY	KV32XBR36	FN	Dead	Unit will not power on. Monitoring the 17 vdc stand by supply we find the voltage running at 4.6 volts.	One of the primary filters on the 17 vdc standby supply C662 a 220mfd @ 35vdc was open.
Sony	KV32XBR76	FN	Dead	Unit will not turn on. No high voltage. Measuring the condition, D1409 is shorted.	The problem is caused by D1409 on the A Board shorting. Problem caused by an intermittent B+ regulator on the G board, IC651, 1-809-524-11. Replacement resolves problem. We have seen a number of these units lately with D1409 shorted. Often it is simply ring cracks on IC651 causing the problem. This unit did have a loose solder connection on IC651(1) but it did not drop the voltage down enough across D1409. The voltage was always 36.6 volts across a 36 volt Zener diode.
Sony	KV32XBR96	FN	Dead	KV32XBR96. Unit is dead and has no vertical sweep.	R623 and VDR 602 burned up. Tech needs 8.2 ohm resistor to replace. Tech does not have 8.2 ohm in his stock. However he can make an 8.2 ohm by paralleling a 10 and 47 ohm resistor. This will create a 8.24 ohm resistor. C531 vented is Connected to R881.
Sony	KV36FV1	AA-2	FOCUS	KV36FV1 Customer is running the television on a DSS satellite system. Customer claims the set looses focus in the picture when there is a lot of detailed movement.	This is caused by the 10 megabit throughput limit of the DSS video compression format MPEG3. In order for the compression to work correctly the Digitization process only updates the data that is changing. Background data is not updated as regularly as the foreground data. Hence when everything must get updated. But the MAX Data throughput is finite. the entire video waveform will not be accurately represented, instead the smaller detailed portions of the picture will begin to have larger pixels so not to exceed the Max Data. This is why to the eye the set appears to loose resolution or picture detail. This is normal.

Sony	KV36FV1	AA-2	focus	KV36FV1 serial 9046442 Unit has poor focus on left and right side of picture	The set has a dynamic focus error. Tech needs to see if the Dynamic focus circuitry is running correctly. Also before any hardware is tested the parameters of HAMP and DCSF should be adjusted to see if the dynamic focus is effected. When adjusting these parameters the values get the best focus when each is mixed out to 60. The focus becomes poor 2 inches from the left side of the screen and 5 inches from the right side of the screen.
Sony	KV32FV1	AA-2H	focus	KV32FV1 Unit has poor focus on the left and right side of screen but OK in the center. If the focus control is varied through its range the sides will become in focus with the center out of focus.	Since this set has the super flat CRT. It incorporates a dynamic focus circuit. In other words the focus voltage varies as the beam travels from left to right. Measuring the Horizontal parabolic wave form up to the input of the primary of the DF transformer, we found the signal to be normal. We were unable to measure the voltages further because they were potentially focus voltage potential. The horizontal parabolic wave form enters the Flyback at the secondary of the DF transformer. Unit had defective flyback transformer.
Sony	KV36XBR200	AA-2H	FOCUS	KV36XBR200 serial 9023068Out of focus on the extreme horizontal edges of the screen. The last 3 inches have a noticeable focus error	CRT...Attempting to move the focus control does not cause the area on the outside of the CRT to change focus. Unit may have Bad CRT.
SONY	KV32XBR45	AA-1	GEOMETRY	Unit is trying to constantly adjust the vertical height and horizontal size intermittently.	When monitoring the E/W Pin output of the M board the signal was very instable. It was decided to replace IC351 the Jungle IC. This corrected the trouble.
Sony	KV27S10	AA-2	GEOMETRY	KV27S10 serial 723009 Unit has symptom every time the set looses power the geometry memory is lost VPOS, VSIZ, HSIZ. PAMP drop at least 10 points each. When resetting these values and writing them to memory the they will be erased as soon as power is removed	Tech needs to replace the EPROM……. I002 corrected the problem
Sony	KV27V65	AA-2	GEOMETRY	KV27V65 serial 8027393 Customer complaint is a slight geometry error or tilt in the lower right hand corner of the screen. It causes a symptom of horizontal lines that are not perfectly straight. In this case the lines are elevated by at width of 2 horizontal lines.	This television is operating within specifications. The geometry errors should not deviate more than 1/8 of an inch across the length of the Horizontal line. Horizontal tilt can be no more than 1/8 of an inch. This television beats this measurements. There is nothing I can recommend to the tech to do to improve on the geometry of this receiver.
Sony	KV32S45	AA-2	GEOMETRY	KV32S45 serial 8102913 picture is rotated clockwise by 1/4 inch. Tech claims this tube does not have a pix tilt circuit or rotation on the CRT bell	Tech needs to break the bonding of the yoke ant reposition the yoke.
Sony	KV36FV1	AA-2	GEOMETRY	KV36FV1 serial 9032273. Unit has a symptom of "Shoulder roll off". In other words horizontal lines are bent down on the far left and right side of the screen. Tech needs yoke modification for the yoke upgrade.	Gave tech bulletin 387R2 relating to the shoulder roll off

Sony	KV32XBR200	AA-2H	GEOMETRY	KV32XBR200 serial # 9008075 .Unit has just had the new CRT with the attached yoke replaced today to correct the Shoulder Roll off symptom as described in Bulletin 387. However the new tube and yoke did not solve the vertical pincushion symptom	Bulletin 387 did not mention a plate which was in the old deflection yoke. The missing THL plate needed to be removed from the old yoke and placed in the same slot in the new yoke . After following the new bulletin 387R1 we were able converge the set.
Sony	KV32XBR200	AA-2H	GEOMETRY	KV32XBR200 serial # 9018039 .Unit has "Shoulder Roll Off" symptom as described in Bulletin 387. Tech will be ordering new yoke and needs the part number	We have changed several yokes so far as of 4-2-99 WITH LIMITED SUCCESS. Performing a complete setup of purity, convergence and geometry setting corrects most of the geometry errors. However this set will not be perfect.
Sony	KV32XBR200	AA-2H	GEOMETRY	KV32XBR200 Unit has just had the new CRT with the attached yoke replaced today to correct the Shoulder Roll off symptom as described in Bulletin 387. However the new tube and yoke did not get installed. Instead we are going to contact Sony	Bulletin 387 did not mention a THL plate which needed to be adjusted was in the old deflection yoke. After following the new bulletin 387R1 we were able converge the set. Also the new tube needed 3 magnetic on the bell of the tube to correct a purity error and converge the lower right hand corner.
Sony	KV32XBR200	AA-2H	GEOMETRY	KV32XBR200 Unit has just had the new CRT with the attached yoke replaced today to correct the Shoulder Roll off symptom as described in Bulletin 387R2. However the new tube and yoke did not solve the vertical pincushion symptom	See bulletin #387R1
Sony	KV36XBR200	AA-2H	GEOMETRY	KV36XBR200 Picture is tilted. There is insufficient range in the tilt adjustment	Use part number out of bulletin 379 for the pix tilt correction coil.
Sony	KV36XBR200	AA-2H	GEOMETRY	KV36XBR200. Serial 9016768. " Unit has pincushion error o the top of screen. Area around the extreme edges of the fields do not have straight lines. Horizontal lines have a shoulder roll off. Tech ordered Yoke specific to bulletin # 387 , but received the complete CRT. I held off replacing the CRT due to three of these have been changed so far with no changes in the symptom	Bulletin 387 did not mention a THL plate which needed to be adjusted was in the old deflection yoke. After following the new bulletin 387R1 we were able converge the set. Also the new tube needed 3 magnetic on the bell of the tube to correct a purity error and converge the lower right hand corner.
Sony	KV36XBR250	AA-2W	GEOMETRY	KV36XBR250 This television has as symptom on the screen where a small area has a non linear horizontal area that causes the image to expand when the image passes through this area. The area about 1/2 inch wide and effect the entire frame of the picture. It can be seen if characters are scrolling through the screen.	Tech needs to change the value of C553 from .33 @ 200 vdc to .47 @ 250 vdc part number 1-117-667-71. This improve the linearity in that are of the screen
Sony	KV32V26	AA-2	green retrace lines	Sony KV32V26 serial 8012582 Goes to green retrace lines and then shuts down. When it comes back on again the unit will be in the video input mode.	The CRT # is A80JYV51X . The cathode voltages at red and blue cathodes are 156 but the green cathode is 22. When the socket is disconnected the green cathode supply jumps to 153 vdc. **The CRT is defective.**

SONY	KV27S25	AA-2	HIGH VOLTAGE	Unit has no high voltage. LED in front is flashing on and off after power up.	There does not seem to be any horizontal drive to the Horizontal drive transistor. Defeating the Horizontal output by removing the collector connection still will not allow Horizontal drive to appear at IC351(37). This pin is sitting at nearly 8.5 volts, not the 3 volts it is supposed to be. Also IC351(38) the HOFF/AFCPIN is at 3.3 volts which is normal. Unit has a bad IC351 CXA2025AS
Sony	KV32S40	AA-2	horizontal	Unit has severe over scan of horizontal sweep. Tech replaced Q512 Shorted and Q511 open all elements.	Measuring the collector of Q512 tech finds the voltage running in excess of -7 volts. The voltage on this transistor in inconsistent with the symptom on the screen of a narrow raster that is hourglass shaped. L511 and Q512 are burning up. Suggest the tech replace the following additional components D502, D503, D504, C511, and C513.
Sony	KV35V36	AA-2	horizontal	Unit has a insufficient horizontal sweep. The sweep is reduced by 10 to 15% on the left side and 2 ~ 5% on the right.	When going into the tech set up parameters and adjusting the HSIZ value the sweep will change to full sweep. Monitoring the voltage at the Collector of @Q512 the voltage will vary from 27 volts HSIZ set to 22. When HSIZ is set to 48 Q512(C) will drop to 16 volts. The set will have full sweep but it has a slight foldover condition on the right side of picture. It is recommended the tech replace the retrace capacitors C511, & C513 and the Yokes" capacitors C518, & C515.
Sony	KV36FV1	AA-2	horizontal	Unit has a severe over scan condition for horizontal sweep. Tech did not measure any voltages in the pin amp circuit.	Tech needs to check on L511, Q512, C513, C511, D502 & D504. One or more of these are shorted.
Sony	KV32XBR50	LN1	horizontal	KV32XBR50 Unit has sever horizontal overscan. Measuring Q505(C) the voltage was near "0" volts. Tech changed Q501 but the transistor shorted in less than 5 seconds.	IT was discovered that the Q505 was shorting collector to emitter. Also R571 was also showing signs of overheating. It was suggested that L501 & R571 be replace with a new Q505. The set now runs correctly.
Sony	KV27S20	AA-2	horizontal lines	Sony KV27S20. Black banding across the screen. Symptom does not appear when playing a tape.	Gave tech modification on the KV27S20 to replace C1267 from a .047 to a .47 tantalum capacitor.
Sony	KV32S40	AA-2	horizontal sweep	KV32S40 ser 8053998 Unit has sever over scan of horizontal sweep. Tech replaced Q512 Shorted and Q511 open all elements.	Measuring the collector of Q512 tech finds the voltage running in excess of -7 volts. The voltage on this transistor in inconsistent with the symptom on the screen of a narrow raster that is hourglass shaped. L511 and Q512 are burning up. Suggest the tech replace the following additional components D502, D503, D504, C511, and C513.
Sony	KV35V35	AA-2	HORIZONTAL SWEEP	KV35V36 Product has a insufficient horizontal sweep. The sweep is reduced by 10 to 15% on the left side and 2 ~ 5% on the right.	When going into the tech set up parameters and adjusting the HSIZ value the sweep will change to full sweep. Monitoring the voltage at the Collector of @Q512 the voltage will vary from 27 volts HSIZ set to 22. When HSIZ is set to 48 Q512(C) will drop to 16 volts. The set will have full sweep but it has a slight foldover condition on the right side of picture. It is recommended the tech replace the retrace capacitors C511, & C513 and the Yokes" capacitors C518, & C515. Tech replaced all of the capacitors and the symptom was corrected.

Sony	KV35V75	AA-2	HORIZONTAL SWEEP	Unit has shorted L511 and Q512. Tech replaced these items and they burn out again	Tech needs to replace D503,D502, D504 and C511, C512 the retrace capacitor along wit the other components.
Sony	KV36FV1	AA-2	HORIZONTAL SWEEP	KV36FV1 serial 9023663 Unit has a sever over scan condition for horizontal sweep. Tech did not measure any voltages in the pin amp circuit	Tech needs to check on L511, Q512, C513, C511, D502 & D504. One or more of these are shorted.
Sony	KV32XBR96	FN	HORIZONTAL SWEEP	KV32XBR95S Unit has an extremely wide picture.	I had tech look at Q501(E) the voltage should be about 16 volts. This is the pin modulator input for pincushion correction. In this TV it was 2 volts. A resistance check finds the ohm value to be under 10 ohms. Tech needs to check D511, and Q505
Sony	KV20EXR20		HORIZONTAL SWEEP	KV20EXR20 Insufficient horizontal sweep IC603 is the wrong IC for this chassis.	On the G" board all the B+ on the supply. IC503 is defective SEC135.
Sony	KV27V22	AA-2	intermittent snow	KV27V25 Unit has intermittent snow in the picture zThe tuner pn# 8-598-340-20 was replaced. Now the set has a symptom where the remote control causes the set to enter the video input mode when the channel is selected. Also the set will enter the video input mode if the and another brand of remote that operates a stereo receiver will put the set into the video input mode.	I instructed the tech to enter the tech mode and set the ID codes...ID0=25, ID1=23, ID2=47, ID3=0, ID4=27,ID5=135, ID6=1, ID7=0 . Write these in memory, then press "8" "Enter" to initialize. This corrected the problem.
Sony	KV36FV75	AA-2	NO AUDIO	KV36FV75. Unit has no audio. But also has no OSD stating "Main" or "Stereo" Main picture is fine.	ID codes are 0=25, 1=55, 2=47 3= 0 , 4= 155, 5 =143, 6 =6, 7=0 which is correct. Initializing the EEPOM did not correct the trouble. Tech will be returning with a Manual
Sony	KV32XBR10	ANU-1	no audio	KV32XBR10 Unit has no audio	Product has a defective MTS audio controller part # 8-741-592-2 (8-741-100-56) original number SBX1592-02 corrected the symptom
Sony	KV27S15	AA-2	NO CHROMA	KV27S15 Unit has no Chroma. Black & white is OK. Also no Chorma while using the PIP. Sound and On Screen Display OK. Initializing EPROM does not change the effect.	Scoping the first place where the chroma signal can be readily available is on the PIP module. They are marked "C IN" & "C OUT" on connector CN501(1 & 5). We have chroma going into the PIP board but nothing coming out. Jumping these pins together with a 1 mfd capacitor caused the color to return, as long as the capacitor was in place. Unit has bad PIP module.
Sony	KV32XBR48	AA-2	no chroma PIP	Sony KV32XBR48. No chroma in PIP	X3304 0n PX board not soldered (PIP)
Sony	KV32TW77	AA-1	No high voltage	Sony AA-1 chassis. Unit no high voltage or sound. RY602 latched at turn on. Tech replaced the flyback and Q601, Q602, VDR601, VDR602, VDR603 & R607. After theses components were replaced the unit still did not produce secondary B+. Only 3 volts on the collector of the Horizontal output.	Inspected the Power oscillator and discovered that it was running and producing 167 volts DC at the input side of RY602, but a <13 volts on the low side. Jumping RY602 restored High voltage. Unit had a bad RY602 relay in the power supply.

SONY	KV27S25	AA-2	NO HIGH VOLTAGE	KV27S25 serial 811908. Unit has no High voltage. LED in front is flashing on and off after power up. There does not seem to be any horizontal drive to the Horizontal drive transistor. Defeating the Horizontal output by removing the collector connection still will not allow Horizontal drive to appear at IC351(37). This pin is sitting at nearly 8.5 volts, not the 3 volts it is supposed to be. Also IC351(38) the HOFF/AFCPIN is at 3.3 volts which is normal	Looks like the tech has a bad IC351 CXA2025AS. A second Jungle IC corrected the problem.
Sony	KV32XBR200	AA-2H	NO HIGH VOLTAGE	KV32XBR200 9015636 Unit will click on then it will turn off again. Does not get high voltage.	Unit has b+ to horizontal output but no horizontal drive. If the Horizontal output is removed the set will produce the necessary drive signals. Collector of H. driver Q501(C) measures 85 with Horizontal output removed. Unit appears to have a shorted Flyback or a problem in the horizontal output section that caused the OCP circuit to attack. Product had a defective **Flyback transformer.**
Sony	KV24FV10	BA4	NO HIGH VOLTAGE	KV24FV10 unit will not turn on. No High voltage. LED in front blinks 4 times indicating there is a vertical deflection has stopped. Both relays will latch but RY600 will unlatch after 15 seconds	RY600 is the degaussing relay. The 15 second delay is normal. Since the unit never develops high voltage it would be obvious to all that vertical deflection will not occur. However the flashing of the LED "4" times is a bit misleading. The turn-on relay (RY602) latches but we are not able to achieve secondary B+. Closer inspection discovers that we are not getting primary voltages either. Jumping the relay (RY602) achieves High voltage and all functions work normally. Unit has a defective RY602. part # 1-755-266-11
Sony	KV27S45	BA4	NO HIGH VOLTAGE	KV27S45 serial 8015302 Unit will turn on but will have high voltage. It will shut down with the LED in front flashing 5 times indicating there is no vertical sweep. Jumping RY602 I was able to keep the set on and test the power supply and IC451 integrity.	Checking all the "MUST HAVES" I found that all B+'s were normal on the vertiical output IC. But checking the Data and clock I found that the pulses, after the power is pressed the data and clock pulsed 3 time during a the 3 second period wait affter power button was pushed. After the 3 seconds there was a were a series of pulses with a duration of only 120 microseconds wide remaining for 3 more seconds then disappeared. The pulses were 5 volt peak to peak and looked OK. Artificially I was able to "tickle" IC451(1 & 7) with my Fluke 77 meter in the diode check mode. This tests the ability of the IC to deflect the beam up or down to check the intergrity of IC451. I was able to get the beam to move up and down with this test. We had the same type of Data and clock going to all peripherials. I unplugged the "P" board and started the set again. The Data and Clock now changed dramatically. Instead of a 120 Microsecond pulse train, it increased to was 1000 microseconds. Unit has defective "P" board. This is a PIP module.

Sony	KV32XBR76	FN	no high voltage	KV32XBR76 Unit will not turn on No high voltage. Measuring the condition of the D1409 is shorted.	The problem is caused by D1409 on the A Board shorting. Problem caused by an intermittent B+ regulator on the G board, IC651, 1-809-524-11. Replacement resolves problem. We have seen a number of these units lately with D1409 shorted. Often it is simply ring cracks on IC651 causing the problem. This unit did have a loose solder connection on IC651(1) but it did not drop the voltage down enough across D1409. The voltage was always 36.6 volts across a 36 volt Zener diode.
Sony	KV32S25	AA-2	No Highvoltage	KV32S25 Unit will not develop high voltage. When the set is turned on no high voltage appears. The set has sound and has a flashing light on the front indicating the set is still in a stand by mode waiting for IK pulse feed back acknowledgement from the jungle IC	When monitoring the Horizontal output collector we found the 140 dropped slightly at turn on. But the Horizontal driver Q501(C) dropped to 85 and back up to 140. I had the tech to remove the horizontal output transistor and try starting up the set again. After power up measure the Q501(C) horizontal driver transistor. It should be about 85 volts and stayed. This told us we were looking at a shutdown symptom. Checking all secondaries we found nothing shorted. Replaced flyback which corrected trouble.
Sony	KV32V25	AA-2	No Highvoltage	KV32V25 serial # 7014651. Unit has no high voltage.	The horizontal driver has tremendous amount of ringing on it. Does not change if we remove horizontal output transistor. The transistor has drive has 7 distinct pulses on the base that go above and below the cut off point of the transistor. These seven pulses are 1 microsecond in duration and are grouped in clusters after where the horizontal drive pulses are supposed to be. If allowed to operate for more than a minute the horizontal driver transistor Q502 will short C to E. The product has a bad jungle IC301
Sony	KV32XBR50	ANU-1	No Highvoltage	Sony KV32XBR50 . No high voltage,. Has sound. Tech claims all B+'s are normal from power supply however no high voltage.	B+ OK on Horizontal output but not OK on Horizontal Driver. No B+ on driver. Tech found small connection loose on primary connection of driver transformer. Resoldered and restored normal operation.
Sony	KV32V25	AA-2	no video	KV32V25 Unit has no video when using the front input jacks. All other inputs are O.K.	When tracing the video signal from the front input connector we find good video on the connector but less than an inch away from the connector is a coupling capacitor C2233. Apparently the trace was torn after the video input jack entered the board. Placing a hard jumper wire from the Jack to the C2233(-) corrected the fault.
Sony	KV32XBR250	AA-1	Noise Video	Sony KV32XBR50 This customer has a Goldstar 8mm/VHS dual deck VCR located under this television on the built in shelf. When customer uses the 8mm deck the playback of the tape has corrupted audio, and poor tracking performance when played back on this television	The design of the 8mm format is significantly different from that of the VHS. The 8MM format does not have any stationary heads and completely relies on the signals from the rotary video heads on drum. 4 ATF (Auto Tracking Fix) carriers are recorded on to the tape. Apparently the shielding in the 8 mm VCR, this close proximity to the TV, and the lack of shielding in the Sony TV caused the corruption of the 4 ATF signals. Placing the VCR on the bottom shelf of the TV cabinet corrected the symptom.

Sony	KV36FS12	AA-2	NoiseY video	This television had sever noise resembling black & white random lines of varying lengths. No discernable picture. Noise is in the tuner and video and modes.	Checking the video at the input of the comb filter IC3504(2) on the rear I/O circuit board. The video is perfect. However the Luminance out IC3504(9)is broken into pseudo square waves that are random in size and shapes. This indicated the Combfilter was not working. Further checking discovered the FSC IC3504(37), which is a 3.58mhz carrier was reduced to a 60hx pulses. At CN271(15) we found the FSC signal normal. Problem was an open trace between the connector CN274(15) and C3578 located inside the combfilter shield located at coordinates C2 on the UY board.
Sony	KV27V42	BA4	OSD	KV27V42 When playing the DVD player through the S-video input the Letters "DVD" show on the screen.	I asked the tech to enter the tech menu and change the setting in the VSS parameter from "0" to "1" Also change CDMD from "0" to "3" . This relates to the bulletin TV420. However this did not correct the symptom. I had the tech scrutinize the picture very closely and he discovered the image begins to have a slight sync stability prior to the event where the set displays the words "DVD". I had the tech interrogate the composite video out of the DVD player and look for any anomalies in the composite video, vertical blanking interval, and horizontal sync. This unit uses sync to determine if the input port is live with valid sync. If sync is missing or corrupt the OSD will show the words that are defined by how the input label programmed. This unit may have a problem with the DVD player.
Sony	KV27S22	AA-2	Picture interference	Sony KV27S22. Serial 8126359 the sound is increased to a 60 to 80% level the CRT will exhibit an effect on the sides resembling a "water fall" effect. It disappears if the audio is muted or if the audio level is dropped down to a lower level.	This symptom is called 'acoustical vibration." It is caused by the sound energy from the speakers coupling acoustically through the CRT frame to the Aperture grille inside the CRT. The vibration causes the aperture grille assembly in the tube to vibrate. Suggested customer use external speakers
Sony	KV32XXBR45	AA1	Pincushion	Unit has sever hour glass distortion. Otherwise all other aspects of the picture is normal. When getting into the tech menu the HSIZ or HPIN have no effect.	Checking the Collector of Q503 Pin output we found the voltage running in excess of 38 volts. Q503(B) was less than "0" volts and had no parabolic wave on it. Measuring CN116(8) we found less than .3 volts peak to peak of a vertical parabolic wave. It was determined that IC 301(30) had no E/W correction signal. It should have been nearly 3.5 volts PP. Replacing IC301 a CXA1477AS corrected the symptom
Sony	KV32XBR50	AA-2	PINCUSHION	KV32XBR60 Unit has narrow picture and hourglass distortion	Q505 shorted and R571 open

Sony	KV32S42	AA2D	Pincushion	Symptoms range from: L505 getting very hot or becomes defective. Horizontal shifting in areas of the picture to the left and right of center. Poor horizontal linearity.	T504's core orientation has been modified from suffix -11 to -21 due to the parts construction productivity improvement. As a result of this modification this part's radiated magnetic field is affecting L505 performance as well, saturating L505 and affecting linearity.
Sony	KV27XBR10	FN	Pincushion	KV25XBR10. Unit has excessive horizontal pincushion	The pincushion circuit is a diode modulator type. The source voltage of Q505(C) is developed at the junction of C519-C522 as voltage divider of main B+. This division ratio is modulated by a vertical parabola at Q505(B). We have had L501 and R571 are open & Q505 is shorted. I have seen 8 units with these parts bad. Only two where IC531 was also also replaced. One thing that I have also noticed is the silk screens labels for Q505 element pins are incorrect on the board as well as the service manual silk screens. So it is very easy to get the transistor in backwards if you don't pay attention on how you remove the old one.. My suggestion is to replace the listed parts to restore normal operation. In the tech menu PAMP, CPIN, PPHA adjustments can be tweaked slightly.
Sony	KV35V36	AA-2	PIP	KV35V36 Unit has no control over PIP channels. The PIP only displays the main channel. It will not change on its own	I asked the tech go through the ID codes for this unit and see if they were the correct value. ID3was 10 ID5 was143 & ID6was 0. These were wrong. The ID codes are supposed to be from ID0 ~ ID7 = 25, 55, 47, 10, 155, 6, 0. After resetting the ID codes the set operated the PIP correctly but still needed to set the PIP chroma phase
Sony	KV32XBR76	FN	POOR COLOR	KV32XBR76. Unit has poor color registration but color bars appear near normal. But when cross hair pattern is put up on the screen there are no blue vertical line. There are red and green vertical line and all three colors of horizontal line.	This symptom is a result of a high frequency loss. The ability for the amplifiers in the B drive to turn on an off rapidly is a direct result of how high the bandwidth is. In this case the three outputs of the Jungle IC301(20,22,&23) had the typical signal when viewed on an oscilloscope. All three outputs had the same vertical spike in the center of the horizontal line on the oscilloscope scope. Waveform showing the cross hair pattern was the same value on all three outputs. However on connector E1(5) the signal was noticeably lower. R359 the supply resistor for Q325 had increased in value to 3.76K form 1K. Replaced R359 (surface mount resistor) corrected the symptom.
Sony	KV36FS10	AA-2	Poor edge Focus	Poor focus on outer area of pix. Characters or graphics on other area of screen look out of focus.	Readjusted main focus control on vivid mode. In the tech menu lower the setting of RDR4, GDR4 and BDR4 from 44 to 37, this lowers the contrast. A low contrast and picture level improves the focus on the outer area of picture. Able to improve outer focus on KV32 and 36XBR200, KV32, 36FV1 by adjusting Hamp and DCSF. But on the new models chassis AA-2W, Hamp and DCSF had no affect.

Sony	KV36FV15	AA-2	Poor edge Focus	Poor focus on outer area of pix. Characters or graphics on other area of screen look out of focus.	Readjusted main focus control on vivid mode. In the tech menu lower the setting of RDR4, GDR4 and BDR4 from 44 to 37, this lowers the contrast. A low contrast and picture level improves the focus on the outer area of picture. Able to improve outer focus on KV32 and 36XBR200, KV32, 36FV1 by adjusting Hamp and DCSF. But on the new models chassis AA-2W, Hamp and DCSF had no affect.
Sony	KV36XBR250	AA-2	Poor edge Focus	Poor focus on outer area of pix. Characters or graphics on other area of screen look out of focus.	Readjusted main focus control on vivid mode. In the tech menu lower the setting of RDR4, GDR4 and BDR4 from 44 to 37, this lowers the contrast. A low contrast and picture level improves the focus on the outer area of picture. Able to improve outer focus on KV32 and 36XBR200, KV32, 36FV1 by adjusting Hamp and DCSF. But on the new models chassis AA-2W, Hamp and DCSF had no affect.
Sony	KV32S40	AA-2	Power supply chirp	KV32S40 8096389 Customer complaint is when the set is turned off there is a slight noise " zip" noise from the flyback transformer that lasts for about 2/10 of a second. The customer exchanged the first Sony for this trouble. But the symptom was also in this TV too. The customer tried two of the same models, and claimed they did not here this noise when they heard it at the store.	This noise is normal due to the fact the set does not shut off the Main B+ from the main SMPS. What is turned off is the 9 volt source from IC642 in the "G" board. As the voltage decays the there may be a slight phase shift in the horizontal drive signal as soon as the 9 volts begins to drop. The reason the customer could not hear this symptom in a store is due to its acoustics. The store is far noisier and carpeted walls and floors. In the customers home the set sits in an enclosed oak cabinet (no doors) in a bedroom with tile floors. One can here a pin drop in this room. This set is operating normally
Sony	KV35S40	AA-2	preglow	KV35S40 Unit has preglow at the instant the television is turned on. ?The preglow shows in the lower left and right hand corner and stays until the raster appears.	This phenomena is normal and is caused by the IK pulses that are produced at the instant of turn on. Even thought the cathodes are not completely warmed up there will be a slight amount of beam current produced by just the IK pulses. Since these pulses are at the top portion of the tube or on the curved funnel portion of the CRT this symptom is common and is not considered a defect in the CRT.
Sony	KV27S22	AA-2	PURITY	KV27S22 serial 8091271. After the unit is turned on and the picture is on there is evidence the degausser is still running for about 5 seconds after the picture comes on. There seems to be a 18 second delay before the Degaussing relay unlatches. There is only a 10 second delay for the picture to appear after power up.	I don’t know what the latch time is for the Degauser relay. I thought that it was a bit excessive. But even though the latch time is excessive the posistor THP601 should increase high enough in resistance to drop the degaussed current to minimum levels. The trouble was corrected by replacing the THP601
Sony	KV27S45	AA-2	purity	KV27S45 Serial 8056889 Unit has sever purity error in the lower right hand corner of the picture	The "Q" distance has been severely compromised because the aperture grill has shifted. Unit will need a replacement CRT
Sony	KV36V15	AA-2	PURITY	KV36FV15 serial # 9026985 Unit has in the lower left corner the tube has a sever convergence and purity error.	No magnets appear to have moved into a position that would this effect. It cannot be adjusted out. It has been determined the CRT needs replacement.

Sony	KV36XBR450	AA2W	Purity, Intermittent	MODEL: KV36XBR450 PROBLEM: Will only degauze the first time the unit is turned on and may not degauze again until the unit is unplugged and reset for at least 10min.	TROUBLESHOOTING TIP: ON THE A-BOARD Connect a light bulb in place of the degauzing coil and observe if it lights up for a period at turn on Check the base of Q6001(SURFACE MOUNT) at turn on for .6v at turn on each time at 5min intervals between If the base does not go high, suspect the microprosessor IC701. According to Sony there are some problems with these IC's causing intermittent degauzing problems. TRY THE LIGHT BULB IN PLACE OF THE DEGAUZING COIL TO CHECK DEGAUZE OPERATION Another possibility causing no degauzing: AC line drops too low during degauze sequence. Check the AC input to the set before, during, and after turn-on for any significant drop in voltage. If so, suspect the customer's AC outlet overloaded.
Sony	KV32SR10	ANU-2	raster, Dark	KV32SR10 Unit has dark raster with flaring across the picture.	Measuring the G2 voltage at 1000 vdc source for the G2 only finds 62 volts. R519 is open. Replacing R519 a 2.2K resistor & D501.
Sony	KV32S20	AA-2	raster, glowing	When turned on the raster has a dim glow, with the top brighter than the bottom. The Timer LED in front flashes. Unit has high voltage and sound.	When raising the G2 voltage it was discovered the CRT had a uniform brightness where the top of the screen was brighter than the rest in the CRT. It was also discovered the -15 was missing. Tech needs to look at D530 and R537 a 0.47 ohm resistor.
Sony	KV32V25	AA-2	raster, glowing	Unit had an arcing inside the flyback transformer. The tech replaced the transformer now the unit has a bright band at the top of the screen. The tech replaced the jungle IC without affecting the symptom	Tech noticed the +15 volt source was lower than expected. It was only 10 volts. It is not unusual. The voltage is normally 12 volts. What the tech missed is the -15. This voltage must be there in order for the set to have any vertical sweep. Resistor for the -15 volt source from the Flyback was open. D530 and R537 a 0.47 ohm resistor.
Sony	KV32XBR100	DA1	raster, glowing	Unit will not get raster even if the G2 is raised all the way up. We still don't get a bright screen with retrace lines. Tech requesting the Feature Box. This will be a waste of time because the feature box is not necessary	When monitoring the voltage across the Vertical deflection coils of the yoke we found it to be just over 8 volts. This is a problem. No D.C. voltages should ever be across the vertical deflection yoke windings. Unit has an R554 open.
Sony	KV32S26	AA-2	Raster, Intermittent	KV32S26 Unit has a brighter than normal picture. When G2 is lowered the picture blinks on an off. Tech replaced the flyback and jungle chip with no changes in symptom	I had tech short the CN1761(1, 2, 3, & 6) together. This should give a perfect black and white picture. But when this was shorted we had a black and white picture but the picture still was flashing. Since the jungle IC was already replaced it was assumed the IK pulses were OK from the jungle chip. The main concern is if the pulses are leaving the main board, and if the pulses are getting back to pin 27. This flashing condition indicates the IK feedback pulses are insufficient some where in this path. Further static check indicated a shorted zener diode D1792 in the IK buffer path on the CRT module.
Sony	KV27HSR10	ANU-1	RASTER, Intermittent	Unit has intermittent raster. Bringing up the G2 voltage stops the intermittent action of the CRT	REMOVE THE FOLLOWING PARTS ON THE C-BOARD. R754 RESISTOR, 10K OHM, C719 CAPACITOR, ELECTROLYTIC 22NF/25V, R755 RESISTOR, 5MM JUMPER, 330 OHM. CONFIRM AND READJUST THE G2 FOR CORRECT WHITE BALANCE.

Sony	KV32XBR51	ANU-1	Raster, Intermittent	KV32XBR51Unit has intermittent symptom of no raster. Has sound and high voltage.	Further visual checks in the television discover the filaments become dim intermittently. More visual inspection reveals many small "ring" fractures around the heater pins of the flyback transformer.
Sony	KV27FV15	BA4	Raster, Intermittent	KV27FV15 Unit has Unit has a symptom when it is on Channel 4 (KNBC Los Angeles) the set will display a normal picture then get brighter and brighter then go to a no raster symptom with sound.	Tech needs to enter the tech menu mode and change the values of CDMD to 1 and VSS to 3.
Sony	KV32XBR37	AA-1	Raster, None	KV32XBR37 serial 80139945. Unit has no raster. Has sound, CRT filaments, and high voltage. Led in front is flashing	Tech may have a IK failure. When bringing up the G2 the raster will appear with full vertical sweep and a purple screen. Not much green. Tech needs to look at the IK buffer collectors on Q771, Q772, & Q773. Normally with beam current there shall be about 1 volt on each collector. With the CRT Socket removed all collectors must drop to "0" volts. Q771 did not. It was 1.2 volts regardless if the tube was connected or not. Tech needs to short Q771(E&B) and see if the collector will drop. It did not. TV will need a replacement Q771. Replacement cured the symptom.
Sony	KV32XBR85	AA-1	Raster, None	KV32XBR85 Unit has no raster. Has sound and weak OSD. Stand-by light is not flashing.	Unit appears to have a normal IK feed back to the jungle IC. Screen voltages are 670 vdc and the cathode is running at 180 vdc. Unit looks like a defective Jungle IC. Replacing the Jungle IC corected the symptom.
Sony	KV36FV15	AA-1	RASTER, none	KV36FV15 Unit will turn on with the front panel control but the set will not develop raster or sound. The high voltage will turn but no raster. After 3 minutes the raster and sound will appear	Tech needs to look into the Data & Clock lines of the chassis. These lines must be 5 volts peak to peak and have a typical word length of 1000 milli seconds. Tech discovered the SDA pulses were 3.3 volts peak to peak whereas the CLK pulses were at 5 volts. Tech had to isolate each load on the SDA line and found the PIP tuner was responsible for loading down the DATA line.
Sony	KV20VM20	AA-2	Raster, None	Sony KV20VM20 Unit has no raster but sound and OSD are O.K.	Unit did not have any Horizontal blanker pulse to pin 19 of the Jungle IC. Shorted Z1403 Unit had 60 Peak to Peak at the "FP" of flyback. At cathode of Z1403 should be 7 volts peak to peak. Replace diode and restored normal operation.
Sony	KV26V36	AA-2	Raster, None	KV26V36 Unit has no raster. Further checking we found the set had High voltage and vertical sweep. Just no filaments.	I had tech check the must haves. The only thing that was not present was Heater voltage. I had the tech remove the socket and measure the total resistance of the filament source by measuring the H1 & H2 terminal pins on the "C" board. It was open. H1 & H2 at the flyback were less than 1 ohm. Checking CN503 found the black wire was loose and fell out of the connector when unplugged from the main board. Connector wire would stay in place if reseated. Pushing connector back in place corrected the trouble.
Sony	KV27S20	AA-2	Raster, None	KV27S20. Unit has no raster. Tech had replaced CRT but the symptom was not corrected Power light still flashing indicating the unit is in the stand by mode	Open trace on the CRT driver board causing the IK pulses not to be returned to CN1761(6) not to be fed back into the jungle chip.

Sony	KV32S22	AA-2	raster, none	KV32 Unit has a horizontal line across center of the screen. The line is elevated above center by 2 inches. There is no sound too. No LED'S in front are blinking	This symptom is inductive of a problem in the data or clock bus. Measuring the SCL & SDA I found the SCL was running at 1 volt peak to peak and the SDA was at 4.97 volts PP. I had the tech start pulling all of the stand up boards out of the mother board to isolate the SDA & SCL lines. After the main tuner was removed the SCL returned to normal. Replacing the main tuner corrected the trouble.
Sony	KV32S25	AA-2	Raster, None	KV32S25 Has no Raster. When the G2 is increased the set has a partial raster but brighter at the top of the screen then the bottom. Measuring across the vertical yoke windings we find there is a voltage of approximately 8 volts. These is sound and channels can be selected.	The symptom indicates the set has a vertical deflection failure but more precisely a power supply failure for the _15 volts source. The tech either has a open R536 = .47 ohm @ or open D530. .
Sony	KV32S65	AA-2	Raster, None	KV32S65 serial 8014809. Unit has no Raster. Sound O.K.. LED on front panel flashing. It also does have high voltage.	I had tech measure the G2 voltage at the CRT. It was only 54 volts. With the socket disconnected the G2 voltage returns to 410 volts. Unit has defective CRT. CRT must be replaced A80JYV52X
Sony	KV32V40	AA-2	Raster, None	KV32V40 Unit has no raster. When G2 is increased the unit has a non uniform bright screen, brighter at the top of the screen. The television has sound.	Cure: Checking the +12 and -12 volts at IC561(2&4) respectively are normal. Monitoring Q561(C) it was only 1.7 volts (where it should be about 3 volts), and Q561(B) was 0.6 volts(where it should be "0" volts).. The voltage at Q562(B) is always low (0.11volts). By pulling the base Q562(B) high, with a DMM in the diode check mode, we are able to get full vertical sweep. It appears there is no, or poor pulse coupling between the FB pulse U561(3) and Q562(B). A strong pulse is present at U561(3) when grounding Q561(B). No pulse at C564(+) Tech needs to replace C564 1mfd @ 50 volts was open.
Sony	KV13V50	BA3	Raster, None	Sony KV13V50. No raster. Has sound. Tech replaced CRT and Jungle chip without any positive results.	I had tech measure the Cathode of the CRT. All cathodes were at 368 volts. This voltage is about 180 volts too high. This voltage did not vary even when the CRT was disconnected. This indicated the 180 volts source at cathode of D512 180 v source was too high. If CRT were disconnected the voltage is still too high. Open bleeder resistor at cathode of D512
Sony	KV27S40	BA4	Raster, None	Sony KV27S40 serial 8070786 No raster. Has OSD and Sound. Timer LED not flashing. Tracing the video signal found that it was getting to the comb filter but no chroma or luminance output.	Pin 27 of the combfilter did not have and 3.58 MHz signal on it. Looking in the Tech menu of the chassis found the parameter #51 fsc was set to "0" We set it to "1" and restored the chroma and luminance.
Sony	KV27S42	BA4	Raster, None	KV27S42 Unit has a flashing picture on channel 2. The raster will increase to a point where the raster will disappear with the Front panel LED flashing 5 times indicating an AKB failure.	Tech need to enter the tech menu and reset the VSS parameter from 0 to 1 and the CDMD from 0 to 3. Channel 2 is broadcasting a signal in the VBI area of the video signal.

Sony	KV27V22	AA-2	RASTER, Red	KV27V22 Serial # 8049735 Unit has red screen with then no raster G2 voltage drops to 3 volts. Tapping on neck of tube causes the picture to return to normal. Tech could not duplicate the trouble again. After this the set ran fine.	CRT.. Due to this symptom and the intermittent nature of the trouble I suggest that we replace the CRT A68KZJ50X
Sony	KV27TS27	LN-1	Raster, Red	Sony KV27TS27 LN-1 chassis predominately red picture.	When shorting out the RGB cathodes on the CRT the set will get a perfect black and white picture but shorting out the RGB inputs on the CRT board the set is missing green. Trouble is a defective green output transistor.
Sony	KV32TW67	AA-1	remote	KV32TW67 serial 70040800 Remote does not function RMY102 remote is being used. The menu displays when in the "menu" button on the remote is pressed. We are able to highlight each area of the menus selection which are the "Video, Timer, Setup, and closed caption" choices. But when selection of any of these are tried nothing happens. In the service mode Service menu the service menus comes up with AFC as the first selection. However the binary number (1000) displayed under the word "Service" keeps changing from 1000 to 1100) randomly	The remote has been changed without effecting the symptom.. This appears to be a system control failure. All ID codes are within normal values. Suggest the tech replace the following components IC101 and IC102 are 8-752-856-00 and 8-759-280-74. The components correct the symptom.
Sony	KV32FV1	AA-2H	remote	KV32FV1 Unit does not operate with remote control. Front panel controls are operating OK	Unit has "0" volts on the output of the IR receiver IC2001(1) This should be 5 volts as long as it is not receiving data. Customer has an RCA DVD player connected using the S-video input and the S-Link too. Sony's S-Link is not compatible with RCA's G-Link input used to control operational functions. Disconnect the S-link / G-link connections and restored operations
Sony	KV32FV1	AA-2H	remote	Unit does not operate with remote control. Front panel controls are operating OK.	Unit has "0" volts on the output of the IR receiver IC2001(1) This should be 5 volts as long as it is not receiving data. Customer has an RCA DVD player connected using the S-video input and the S-Link too. Sony's S-Link is not compatible with RCA's G-Link input used to control operational functions. Disconnect the S-link / G-link connections and restored operations.
SONY	KV32FS13	BA5	Resolution		If the customer complains about this symptoms please apply the following countermeasure: 1. Check on the A Board which type of T504 is used (suffix -11 or -21) 2. If suffix -21 is mounted invert L505 polarity (Part polarity mark and PCB mark must be opposite). L505 polarity is marked with a dot on top of the coil & also on the board. These dots should be on opposite sides of one another after the coil is remounted.
Sony	KV27S22	AA-2	Retrace lines	Unit goes to a bright blue screen with retrace lines then shuts down.	Unit has a defective CRT. When unit is able to turn back on again the set will sometimes be in the video input mode.

Sony	KV27S25	AA-2	retrace lines	Sony KV27S25 Bright screen with retrace then unit shuts down	I had tech measure the 200vdc supply line and it measured only 78 volts. Unit had defective capacitor in the 200 vdc source.
Sony	KV27V40	AA-2	retrace lines	Sony KV27V20 has retrace lines no video. Unit will shut down if left on after the filaments warm up.	Missing 200 volt source from flyback to CRT driver board. Trace broken at CN1781
Sony	KV32S22	AA-2	Retrace lines	Unit has bright screen with retrace lines then it will shut down. Measuring the G2 supply finds nearly 420 vdc but the CRT cathodes are running only 55 volts. Disconnecting the CRT socket causes the cathode source voltage to rise over 180 volts.	It appears the CRT is loading down the cathode voltages. Unit will need a replacement CRT.
Sony	KV32S22	AA-2	retrace lines	KV32S22 serial # Unit has bright screen with retrace lines then it will shut down.	Disconnecting the CRT and measuring the RK, BK,& GK on the CRT socket we found all of them running at 187 vdc. But after connecting the socket again to the CRT they immediately dropped to 33 volts. Unit will need a replacement CRT.
Sony	KV32S22	AA-2	RETRACE LINES	KV32S22 serial 8011789. Unit has intense blue raster with retrace lines then shuts down. Tapping on neck of tube aggravates the symptom	Tech will need to replace the CRT. 8-733-741-05
Sony	KV32S22	AA-2	RETRACE LINES	KV32S22 serial 8046606 Blue screen with retrace lines then shuts down.	Monitoring the "C" board Blue cathode terminal the tech found the voltage was less than 70 volts when connected to the CRT. Removing the module from the CRT the voltage raises the voltage to 189 vdc at KB. CRT... Unit will need a replacement CRT
Sony	KV32S26	AA-2	Retrace lines	Unit has bright screen with retrace lines. The flyback was changed but did not correct the symptom.	Unit has the 200 vdc cathode source voltage measures 179 vdc but when measuring on the cathode directly the voltage is very low 22 vdc. Disconnecting the socket causes the voltage to rise back to 198 vdc. Unit has a defective CRT.
Sony	KV32S26	AA-2	RETRACE LINES	KV32S26 Unit will go to as bright screen with retrace lines then shut down.	When the set shuts down. All Cathodes of the CRT are only 66 volts. With the CRT disconnected from the module the RK, BK,& GK will increase to 202 vdc. . Unit will need a replacement CRT
Sony	KV32S26	AA-2	retrace lines	KV32S26. Unit has bright screen with retrace lines	Unit has the 200 vdc cathode source voltage measures 179 vdc but when measuring on the cathode directly the voltage is very low 22 vdc. Disconnecting the socket causes the voltage to rise back to 198 vdc. Unit has a defective CRT.
Sony	KV32V25	AA-2	Retrace lines	Unit has bright screen with retrace lines then shuts down.	Measuring the 200 volt B+ at the CRT socket we found the voltage to be under 126 vdc. This indicated the 200 volt source was not running. I had the tech check R553 a .47 ohm 1/2 watt resistor and it was open. Replaced the resistor and the set operated normally
Sony	KV32V25	AA-2	retrace lines	KV32V25 serial 7019547. Unit has bright screen with retrace lines then shuts down.	Measuring the 200 volt B+ at the CRT socket we found the voltage to be under 126 vdc. This indicated the 200 volt source was not running. I had the tech check R553 a .47 ohm 1/2 watt resistor and it was open. Replaced the resistor and the set operated normally
Sony	KV32XBR100	DA1	RETRACE LINES	KV32XBR100 Unit has a bright screen with retrace lines	The 200 vdc line at the CRT is only running at 144 vdc on all cathodes. Unit has an open diode on flyback transformer for the 200 vdc source

Sony	KV36XBR200	AA-2H	SCREEN TEMPERATURE	KV36XBR200 serial 9016329. On the far extreme left and right side of the screen the picture has a yellow color temperature where it should be white.	When looking at a blue raster at 60 IRE the blue does not have uniform brightness across the screen. The light output is not the same level at the area of the screen where we see the yellow with a 60 IRE white screen. We are not able to adjust the Blue to make it equal in brightness in all areas of the screen.. This is a defective CRT. Customer does not want the set requesting a replacement. Under 30 day purchase,.
Sony	KV32S40	AA-2	shading	KV32S40 Brightness shading in brighter on the right side than it is on the left side of the screen. Symptom only shows up in the tuner mode. VCR in video input mode is fine. Unit has CATV box "Scientific Atlantic model 8580338".	After checking out the box and moving the box it was discovered the movement of the box effected the screen brightness. The box was mounted directly beneath the television. If the box was moved to the far left the symptom disappeared. If centered below the TV the symptom was evident. Solution was to move the CATV box away from the television and remove any electromagnetic interference caused by the television.
Sony	KV32XBR35	AA-1	shut down	Unit will shut down each time the Remote headphones circuit is turned on.	Unit has an intermittent short to ground on the IR12 volt line located at the output of IC202(3-4) located on the "A" board. This short was caused by a solder splace on that circuit board.
Sony	KV32S25	AA-2	shut down	KV32S25 Unit will not develop high voltage. When the set is turned on no high voltage appears. The set has sound and has a flashing light on the front indicating the set is still in a stand by mode waiting for IK pulse feed back acknowledgement from the jungle IC	When monitoring the Horizontal output collector we found the 140 dropped slightly at turn on. But the Horizontal driver Q501(C) dropped to 85 and back up to 140. I had the tech to remove the horizontal output transistor and try starting up the set again. After power up measure the Q501(C) horizontal driver transistor. It should be about 85 volts and stayed. This told us we were looking at a shutdown symptom. Checking all secondaries we found nothing shorted. Replaced flyback which corrected trouble.
Sony	KV32S65	AA-2	shut down	KV32S65 intermittently the set will turn off. This process takes about 30 ~ 60 minutes. The set can be turned back on again if the power button is pressed twice. Sometimes the set comes on in the Video 1 input mode when it was in the tuner mode before it shut down.	This could be caused by the CRT. Suggest the tech disconnect the CRT socket an run the set with the tube disconnected and see if the set shuts down with the CRT disconnected. With the tube disconnected the chassis ran 3 days without shutting down. A CRT was substituted and the problem never showed up on the other CRT. Replaced the CRT and it corrected the symptom.
Sony	KV35V36	AA-2	Shut down	KV35V36 serial 9024090 Unit has an intermittent shut down that only occurs after two or three days. When shut down occurs, the LED in front is Blinking and raster disappears but sound is OK. When flexing, heating, or freezing the main circuit board the problem can never be recreated.	Tech needs to order the CRT. Since we are not able to confirm any trouble with chassis The CRT is nearly out of Warranty. It is recommended that since we are unable to determine any chassis fault the problem must be due to CRT arc over. Note after 4 weeks of normal operation the CRT seems to have corrected the symptom.
Sony	KV27V42	BA4	shut down	KV27V42. Unit had led in front flashing 4 times after turn on. This indicates the unit has no vertical deflection.	The vertical out is shorted and burns out the -15 volt supply. The resistor R561 is a 1/4 watt and R562 is a 1/2 watt. These resistors typically are both the same wattage. It is suggested to replace both with the same value. 0.47 ohm @ 1/2 watt.

Sony	KV32V16	AA-1	shutdown	KV32V16 serial 7089163 Unit will not stay on. Goes into shut down immediately after turn on	. When HV comes up the signal at the Collector of the horizontal output transistor is normal. No shorts can be found in the power supply. PM501(1-810-061-21) & IC601(1-810-477-11). PM501 was to culprit in this case.
Sony	KV24FV10	AA-2	shutdown	KV24FV10 Unit will shut down immediately after turn on. But the unit will stay on if the service mode is entered..	When monitoring the VP at IC001(18) only 1 volt peak to peak was measured. Floating IC001(18) allowed the voltage to return to 5 volt PP. Replacing the IC001 corrected the trouble
Sony	KV32S22	AA-2	shutdown	KV32S22 serial # 8055057. Unit will run fine for 15 ~ 30 minutes with sporadic arcing then it will shut down with a bright green flash	Unit needs replacement CRT 8-733-741-05.
Sony	KV32S40	AA-2	shutdown	KV32S40 Unit will turn on and immediately shut down. It does get high voltage briefly. Appears to be entering over current shutdown. Waveform at the collector of the horizontal output appears normal. Horizontal drive is normal if the horizontal output transistor is removed.	Severing the 135 B+ line and placing a 40 watt bulb in series with the supply were are still getting the same symptom but the Light illuminates brightly. We began to disconnect the flyback loads D530, D531. After disconnecting these we found the set will run with D530 disconnected . Checking this device it passes the static check. This component is the -15 volt source. It was suggested to replace D530. This corrected the problem.
Sony	KV32S65	AA-2	shutdown	KV32S65 Unit goes into shut down. Will allow HV to com up but goes into immediate shut down afterwards. At no time did we ever have Data on 9 & 10 of the Jungle IC	Open coil that supplied the B+ to the audio controller and buffer chips. This loss in voltage caused the audio processor chip to load down the Data and Clock lines and cause this symptom.
Sony	KV35V35	AA-2	SHUTDOWN	KV35V35 serial 9011978 Unit flashes bright green with retrace lines then shuts down. When powered back up sometimes the set will be in the "VIDEO 1" mode.	?Unit has a defective CRT. A89LJT80X
Sony	KV36XBR450	AA2W	shutdown	Unit will shutdown immediately after turn on. Tech replaced the D board. After the D board was replaced the set turned on with sound and the screen brightly lit with retrace lines, then shut down. Now set Shuts down as it did on the first call.	What the tech missed is not checking the 200vdc source at L9005 on the "C" board. This is the 200 vdc pealking coil located on the CRT socket. This voltage was "0" volts. Measuring the resistance to ground at the 200 vdc input to each CRT cathode driver IC IC9001, IC9002, IC9003(6) found 6 ohms to ground. Closer inspection of the cathode driver IC IC9003 & IC9002 had holes in them just above Pin 6. PN#8-759-360-83. Also new module damage. Open R5096 on the "D board", a 0.47ohm open. Replace all 3 cathode driver IC's corrected the problem
Sony	KV27S42	BA4	shutdown	KV27S42 Unit will turn on but will shut down after 1 second. The LED in front flashes 5 times. If you check the Error codes of 4 times which indicates the set has a vertical failure. However when we jumper the relay RY602(AC contacts) the set will come on and id power button is pusher the set will have a normal picture with sound. But obviously it will not turn off.	While running in this condition I discovered the base of Q610 was in saturation. Floating the collector of Q610 allowed the set to run without the jumper on the relay. On - Off operation was normal. Measuring the anode of D620 found it to be 4.5 volts where the cathode was at 7.5. This appears to be a 10 volt zener. Replacing the diode D620 cured the trouble.

Sony	KV36XBR450	AA2W	shutdown	Unit will shutdown immediately after turn on. Tech replaced the D board. After the D board was replaced the set turned on with sound and the screen brightly lit with retrace lines, then shut down. Now set Shuts down as it did on the first call.	What the tech missed is not checking the 200vdc source at L9005 on the "C" board. This is the 200 vdc pealking coil located on the CRT socket. This voltage was "0" volts. Measuring the resistance to ground at the 200 vdc input to each CRT cathode driver IC IC9001, IC9002, IC9003(6) found 6 ohms to ground. Closer inspection of the cathode driver IC IC9003 & IC9002 had holes in them just above Pin 6. PN#8-759-360-83. Also new module damage. Open R5096 on the "D board", a 0.47ohm open. Replace all 3 cathode driver IC's corrected the problem
Sony	KV32XBR48	AA-2	shuts down	KV32XBR48 Unit get a bright red screen then looses horizontal sweep then shuts down. Unit can be turned on again right away	Tech needs to tap on neck of CRT and see if the symptom is aggravated by this action. After tech got to the house an tapped on CRT it was founf that the Tube was causing the problem.
Sony	KV27V22	AA-2	SHUTSDOWN	KV27V22 serial 8004933 Unit has a green screen with slight retrace lines, Tapping on the neck of the tube aggravates the green drive then the set shuts off.	CRT.. Due to this trouble I suggest that we replace the CRT A68KZJ50X
Sony	KV27V42	BA4	SHUTSDOWN	KV27V42. Unit runs but will shut down intermittently with the timer LED flashing in a sequence of two flashes then a 4 second pause, then two flashes. Seem be sensitive to the effects of beam current. Just prior to shut down the set will exhibit horizontal instability. The main B+ from the power supply is stable	Suggest the tech try running the set with the CRT disconnected. The set runs fine in this mode. The horizontal output is running normal temperature. Suggest the tech measure the collector of Q571(C) It should be close to 4 to 5 volts with beam current. It was 9 volts with a normal screen brightness. It would drop to 8 volts but never lower than that. The Q571(B) was at 135.1 and Q571(E) was 135. The device is a PNP transistor. With these voltages this transistor should be turned off. "0" volts on the collector. I had the tech remove Q571(C) and the set ran fine. The collector then measured 135 vdc. Transistor checked statically OK but suggested the tech replace it anyway
Sony	KV36FV1	RA-2	SHUTSDOWN	KV36FV1 Unit shuts off immediately after turn on. Measuring the collector voltage Q502(C) finds it rises up then falls to zero.	I Asked tech to remove Q502(B&E) then measure Q502 collector. After unit is turned on. It was at 135 vdc. Q501(C) was at 77 vdc.. Unit has Horizontal drive at Q501(C). This indicated the unit had horizontal drive. Scope reading showed a 60/40 duty cycle at 63 microseconds. There are no apparent short circuits on secondary of Flyback transformer. Unit has defective Flyback.
Sony	KV27S40	AA-2	squeal	KV35S40Unit is making a noise internal to the television that resembles the sound a fax machine makes when listening to it over a telephone connections	These sounds are apparently caused by loose laminations in the Linearity transformer. It is suggested the tech replace L511=1-406-607-41, C520= 1-101-821-00(.002 mfd @ 500 vdc) R506 =1-215-861-00(47 ohm@ 1 watt Metal film)

Sony	KV35V68	AA-2	Syscon	TV will turn itself on by itself	The suspected root cause is the VBI inserter serving the areas in question. These provide the data by region which would result in this problem occurring in all sets in an area. The postal code information is that will allow Gemstar to figure out which VBI inserters may be causing the problem. In our TVs, the Gemstar-side software may be upgraded from the VBI via these servers. The servers receive their information from Gemstar via modem. A corrupted download to a VBI inserter could result in entire areas being affected. This is especially true for cable TV and the cause may be an inserter at the cable company which can be resolved by Gemstar. In this scenario, resetting the TV set will solve the problem for maybe short while, but if the VBI inserter is still sending bad data, The set will re-load the bad patch and the problem will occur again. Which is why resetting the Guide will not correct the problem. In any case, without the info requested, Customer zip code and symptom sent to your Tech Rep. Gemstar will not be able to correct the problem.
Sony	KV27V40	BA4	syscon	KV27V40 serial # 8015653 Unit is connected to antenna and two different satellite systems and want to auto program each satellite receiver in both A and B inputs.	Customer want to autoprogram all of these sources into antenna A and the other source into Antenna B. This is not possible with this type of television.
Sony	KV27FS13	BA5	Syscon	Unit will turn on but after that the set will not turn off, nor will any function on remote control operate.	Measuring the CPU IC001(8) finds that it is always 1.1 volts not 5 volts as it is supposed to be with no buttons pushed. It was discovered that the customer tried to clean the CRT with Windex. It dripped down the CRT and on to the keyboard. This must have caused the 5 volts to be shorted to the input of the CPU. Unplugging the Keyboard from the chassis still did not cause I001(8) to rise. It looks like IC001(8). New IC corrected the symptom.
Sony	KV9PT50	BN1	syscon	Sony KV9PT50 serial Unit does not respond with the remote or Keyboard. In fact when the keyboard is activated the Volume goes low and any other key causes the set to either turn off or change channels	Shorted C009 on pin IC100
Sony	KV27FV15	AA-2	SYSTEM CONTROL	KV27F15 The set has a symptom of the keyboard doing the wrong functions. Cannot get into the tech menu. When the display button is pushed the set will shut off.	Checking Key-in to the I001 we found it to be sitting at 3.7 volts without any keys pushed. This is an analogue input to the CPU and must be at 5 volts with no keys pushed. Keyboard had small board contamination on the channel down switch. Removing the channel down switch corrected the problem. All remote control functions return to normal and so did the keyboard functions

Sony	KV27V22	AA-2	SYSTEM CONTROL	KV27V25 Unit has intermittent snow in the picture zThe tuner pn# 8-598-340-20 was replaced. Now the set has a symptom where the remote control causes the set to enter the video input mode when the channel is selected. Also the set will enter the video input mode if the and another brand of remote that operates a stereo receiver will put the set into the video input mode.	I instructed the tech to enter the tech mode and set the ID codes...ID0=25, ID1=23, ID2=47, ID3=0, ID4=27,ID5=135, ID6=1, ID7=0 . Write these in memory, then press "8" "Enter" to initialize. This corrected the problem.
Sony	KV27V25	AA-2	system control	Unit has intermittent snow in the picture. 8-598-340-20 tuner was replaced. Now the set has a symptom where the remote control causes the set to enter the video input mode when the channel is selected. Also the set will enter the video input mode if another brand of remote that operates a stereo receiver is used.	I instructed the tech to enter the tech mode and set the ID codes...ID0=25, ID1=23, ID2=47, ID3=0, ID4=27,ID5=135, ID6=1, ID7=0 . Write these in memory, then press "8" "Enter" to initialize.
Sony	KV36FS10	AA-2	System control	Unit will turn on but not have any raster until the channel is selected. The LED in front flashes indefinitely until the channel is selected. After a channel is selected the set will run fine the rest of the day. The unit has high voltage, filaments, & vertical sweep during the no raster condition.	After first turning on the set the cathodes of the CRT are measured with an oscilloscope. An interesting fact that after the set is turned on there are no visible IK pulses on any of the CRT cathodes. IK pulses only appear when the channel is addressed with the remote or the Channel up down command on the television. Initialization of the EEPROM did not correct the symptom. No incorrect values found in the alignment parameters. Only by elimination was the trouble found to be in the EEPROM.
Sony	KV27V42	BA4	system control	KV27V42 serial 8028220. When this television is on Channel 2 the raster will go out. Changing the channel the raster returns. Going back to channel 2 the raster disappears again. LED in front flashes when the "NO raster" symptom is present.	Tech needs to enter the tech menu and adjust the CDMD parameter from "0" to "3".
Sony	KV27FS13	BA5	System control	Unit starts to channel "UP" as soon as the TV is turned on. Cannot stop the unit from channeling "UP" unless one of the other buttons on the TV are pushed. It will execute TV/Video.	Checking the keyboard we found nothing wrong with the buttons. No contamination of the buttons or board was found. Further checking finds the Key Input on CN2001(5) was only 1.1 volts instead of 5 volts when no keys are pushed. Unplugging the CN2001 still did not bring up Pin 5. No shorts could be found on this line but a zener diode D006 a 9.1 volt device was discovered. It is the clamp for the KEY input of the IC001. Cutting diode restored normal operation . Replacement of this diode was done to protect the input of I001. Located on the MA board.
Sony	KV2084	P3	SYSTEM CONTROL	Sony KV2084 Will not memorize any channels. Tech ordered the CPU and Memory IC.	I asked tech to check the negative supply voltage to IC103 Memory IC on 10, it should be -29 VDC before replacing the CPU and Memory IC. CPU was not needed. **Verified the presence of the supply voltages at the memory chip. The memory chip was defective.**

Sony	KV32FV1	AA-2H	tuning	KV32FV1 serial 9002390 Main tuner will not tune any channels but the PIP tuner is fine. Tuner was changed without any change in the symptom. Set just displays snow on all channel from the main tuner and the OSD for main channel display is normal.	I had tech check the B+ on the tuner that are stamped on the board. The 9, 30 & 5 volts are normal. The SCL line is only 2 volts and the SDA line is 4.6. The SCL line is the trouble. Tech did not have an oscilloscope but since the SCL line for this tuner is the same for the PIP tuner we concluded the CPU was not at fault. There appeared to be an open between the SCL of the main tuner and CN1101(6). Since the traces on the CBA are so thin the and no cracks in the board material could be seen the decision was to install a small jumper wire between these two points. This corrected the symptom.
Sony	KV27XBR10	FN	tuning	Unit has AFT drifting as soon as the channel is addressed. It never stops the AFT search.	Unit needs to have the IF/Demodulator module removed from it's shielded compartment and resolder all the adjustable tuning transformers. The AFC coil/transformer has ring fractures around the pins that protrude through the circuit board.
Sony	KV35V68	AA-2	TV Guide Plus	KV35V68 Serial 9005526 TV guide plus does not function. When the television is setup for TV guide Plus the customer is selecting that they have a VCR and CATV box. But they are not using the Calble Mouse or IR Blaster.	The IR blaster is used to communicate from the television to the CATV box in order for downloading to occur. If the IR blaster is not used the feature will remain inoperable because when the set downloads the data, it must find the host channel. It uses the IR blaster to change channels on the CATV box in order to find the host channel. In order for this to operate the customer must use the IR Blaster. If not they will need to split the cable before it gets to the CATV box and deselect any VCR or CATV box questions by answering "N0" to questions about them in the initial setup menu.
Sony	KV35V68	AA-2	TV Guide Plus	TV guide plus does not function. When the television is setup for TV guide Plus the customer is selecting that they have a VCR and CATV box. But they are not using the Cable Mouse or IR Blaster.	The IR blaster is used to communicate from the television to the CATV box in order for downloading to occur. If the IR blaster is not used the feature will remain inoperable because when the set downloads the data, it must find the host channel. It uses the IR blaster to change channels on the CATV box in order to find the host channel. In order for this to operate the customer must use the IR Blaster. If not they will need to split the cable before it gets to the CATV box and deselect any VCR or CATV box questions by answering "N0" to questions about them in the initial setup menu.
Sony	KV32S20	AA-2	uneven brightness	This product has a strange glow toward the top of the tube. Sort of an out of focus raster but only at the top 1/5 of the tube.	When raising the G2 voltage it was discovered the CRT had a uniform brightness where the top of the screen was brighter than the rest in the CRT. Measuring across the vertical yoke windings we found a8.5 volts. It should be "0" volts if the vertical output is working. It was also discovered the -15 was missing. Tech needs to look at D530 and R537 a 0.47 ohm resistor. Unit had bad diode, resistor and vertical output IC501.
Sony	KV32S22	AA-2	uneven brightness	KV32S22. Unit was dead. Has a glow at the top of the screen only when the G2 voltage is increased.	Unit is missing the -15 volt source voltage to the vertical output

Sony	KV32S25	AA-2	uneven brightness	KV32S25. Unit has Bright glow at top of screen. Unit had 8 volts at pin 5 of vertical output chip. It is supposed to be "0" volts. Also unit has no audio.	Both 2 and 4 of IC1501 are +12v and -15v.. Appears to have the wrong inputs to the vertical output chip. Data line shorted to ground. The clock line sitting at 5 volts with no clock signal. Removal of the PIP module restores the normal operation/ Unit has defective PIP module.
Sony	KV32XBR48	AA-2	VERTICAL	KV32XBR48 this is a AA2C chassis. The television has no vertical sweep, and no sound. Tech replaced the vertical output IC without correcting the symptom	Tech is trying to cure the vertical sweep defect but the not the sound. These are related to each other. This set will not develop vertical sweep unless there is data communications between the microprocessor and Jungle IC. Tech needs to monitor the SDA & SCL lines that are marked on this chassis. If there is a short on either line the set will loose vertical sweep. Clue is you need the SCL & SDA lines to control audio, if a short is on these lines or data is corrupt the set will have no audio too. There was no Data or clock on the UX board. Checking the presence of 9 volts we found it to be only 7 volts. Monitoring the protect diode D261 zener diode on the SDA line. Unit had a defective D261 on the UX board.
Sony	KV36XBR200	AA-2H	vertical	Unit has insufficient vertical sweep. Also has top vertical foldover. Tech can get into the menu and effectively move the vertical height and centering but it will not eliminate the foldover condition.	Tech needs to replace IC561, D561, & C565. Unit had defective Pump up capacitor. C565
Sony	KV27TS20	ANU	vertical	KV27TS20 Unit has highly intermittent vertical foldover mostly at the top of the screen	Unit had small ring fractures around the vertical deflection yoke connector pins on the chassis. Resoldering the connections corrected the symptom
Sony	KV27FV300	BA5D	vertical	Unit has an intense horizontal line across the screen. Before the screen control could be turned down the CRT fractured.	Replaced IC561 and the CRT corrected the vertical sweep problem but the screen was still uncontrollably bright. The R G & B cathodes of the CRT were only "5" volts. The TV also needed IC702 TDA6108JF original part number 8-759-562-43

Sony	KV32XBR36	FN	vertical	KV32XBR36 Unit has a slow compressing and decompressing of the vertical sweep.	Q605 was not soldered well
Sony	KV36FS12	AA2	Vertical	Unit has Insufficient vertical sweep. After the set is on a while the vertical will fold over in the center and eventually collapse.	Checking IC591(5) the wave form of never normal looking. Only 48 volts pp then starts to distort and drop to a flat line. Inputs to IC501 also drop. When checking at the output of the Jungle IC 355(14) the drive signal becomes less and less until it is gone. Further checking found that D384 was leaky. It is a 11 volt zener on the Vertical drive output from the Jungle IC. Replace the diode and cured the symptom.
Sony	KV20FV10	BA4	VERTICAL LINE	Customer claims the set develops a symptom of a black vertical line in the center of the screen. It is spreads rapidly across the screen until there is no raster. Afterwards there is still sound but no On screen Display or Raster. Customer claims the LED in front does not flash.	Taking a conservative approach to this repair the tech needs to enter the tech menu and reset the VSS parameter from 0 to 1 and the CDMD from 0 to 3. This will cause intermittent loss of raster. There are no error codes listed in the Tech menu. Tech will need to check back in two days an see if the symptom shows up again.
Sony	KV32S45	AA-2	vertical lines	KV32S45. Serial # 8047063. Unit has a thin vertical lines in picture that are spaced 1 inch apart on the left side of the screen. It can be scene on all inputs. Best seen on scenes around 10 ~ 20 IRE.	The description sounds like jail bars caused by a ringing in the B+ to the Flyback transformer. It is suggested to install a capacitor with a value of 33 mfd at 250 vdc in place on top of chassis in positive side to FB503 and negative side to ground. This simply increases the capacitance on the 130 volt line to the horizontal output section, and reduce ripple caused by the hard demand of current when the flyback is switched on. Part # 1-107-654-11. This minimized the effect
Sony	KV35V35	AA-2	vertical sweep	KV35V35. Unit has not vertical sweep and no sound.	No vertical drive from Jungle chip. Data and clock normal. Jungle chip has been replace several times with no effect. EPROM was changed too with no effect. But the CPU IC001 repaired problem.

Sony	KV36FV1	AA-2	VERTICAL SWEEP	KV36FV1 Unit has insufficient vertical sweep and vertical foldover at the bottom of the screen.	Suggest the tech try to replace the Charge pump diode and pump up capacitor D561 & C565. This did not correct the symptom. But it was found while moving the wires around the yoke connector the symptom changed slightly. But when tugging on the wiring going into the deflection yoke the tech found a significant change in the vertical deflection scan. There isn't a schematic for the yoke assembly but a small connector inside the yoke housing where the 3 controls were mounted. The connector is called P16.It was not soldered very well. It had thin solder across the land to the pin but what looks like pin oxidation it from making a good electrical connection. Resoldering the connection returned the set to normal operation
Sony	KV36XBR200	AA-2H	VERTICAL SWEEP	KV36XBR200 serial 9015396. Unit has insufficient vertical sweep. Also has top vertical foldover. Tech can get into the menu and effectively move the vertical height and centering but it will not illuminate the foldover condition	Tech needs to replace IC561, D561, & C565
Sony	KV32V20	AA-2	VIDEO	KV32V20. Unit has poor contrast. Tech has to raise the G2 just to get a raster. When the raster appears the picture is washed out and lacking good contrast ratio.	Gaining a little more information from the tech I found out the set actually had a "No Raster" condition, and the timer led was flashing. The G2 was increased tin order to get this washed out picture. The probable cause of this problem is the IK pulses may be too low for the Jungle IC to correctly interpret them. By raising the G2 voltage the IK pulses are raised up to a point where the Jungle will acknowledge them. But by then the RGB drive is too great and a overdrive condition occurs on the CRT. Tech needs to check the components in the "IK buffer circuit on the "C: board **D1792= 3.9 volt zener diode, & Q1790=2SA1309A**
Sony	KV32XBR45	AA-1	WEAK VIDEO	Sony KV32XBR45 Unit has a very faint picture But the OSD is fine. Problem shows up in the tuner and video input mode. Tech ordered Q401 but did not correct the symptom	There is video at the base of Q401 but not at the emitter. Q401 measures 9 volts on all elements. Base must be 4.5 volts. Transistor is in cut off. Bases and emitter are the same 9 volts. Unit has open R617 a 680 ohm resistor.
Sony	KV35XBR48	AA-2	WRONG COLOR	KV35XBR48 serial 01901543. Customer using this television on a DVD player and has it connected through the "YUV" inputs. The gray scale is favoring the green color temperature even if no color is present on the screen. Playing back the same signal in the Composite input or the S-video input the color temperature is normal with normal black and white tracking. It is thought that a separate black and white tracking or RGB drive adjustment in the YUV mode will solve this trouble.	According to Sony there isn't any drive adjustments in the YUV mode. This symptom shows up on another Sony television of the same model. Sony claims this is a normal function and there are no plans to address this phenomena. There is nothing wrong with the Television It is operating as designed.

Sony	KV32XBR95	FN	Shutdown	Unit is shutting down as soon as the set is plugged in.	This model, if the set failed while it was "ON" will automatically turn it self on as soon as power is applied. This is normal. When check out this power supply, and before replacing any parts the tech needs to check out all loads on this supply. Measuring the resistance on Connector G5(pins# 1 to 4) measured less than 1 ohm. This was for the audio B+ and might possibly indicate the Audio output IC's was shorted. Further checking found that D1409 a 36 volt zenor diode on the "A" board was shorted. If connector G5 was disconnected the set would operate. Monitoring the B+ found the B+ varing from 36 to 39 volts. The was caused by numberous bad solder connections on the G board. Worst connection was on T604(16 & 17). These bad connections caused the power supply to not to have stable output voltages on the secondary. ESR testing found that C667=100mfd@10vdc, C668=100mfd@16vdc, and C661=220mfd@35vdc had highter than acceptable ESR readings. These were changed also. Set was restored to operation condition
Sony	KV32XBR70	ANU1	Audio	Unit has"Garbled", or "Noisy", or "Distorted", or "Static", but what is ISN'T is "NORMAL". Problem traced to the SBX sound package that might cause similar symptoms, and IT has been decreed as NLA by Sony. It's the SBX 1593-01 (Sony # 8-741-159-30). Wouldn't you just HATE to have to trash a nice Sony TV because you can't get a part to fix a Sound Problem? Well, one of our readers has come forth to tell you of a way to bypass this circuit.	To bypass the module: Use two 4.7@50 capacitors and connect the (-) side of one cap to pin 5 on the MTS module and the (+) side to pin 4 on the DBX module. Take the second cap and connect the (-) side to pin 6 on the MTS and the (+) side to pin 5 on the DBX module. This should give you clean sound but you may not have the fullness that the board would have given you." Well, a "Lack of Fullness" is certainly better than a "Lack of Sound" which is what the customer had before the bypass.

Sony	KV32XBR55	FN	Sync missing, Preen Picture	4" green out of sync pix. left side only on all inputs,even with no signal.kg on crt cba 100vpp,kr,kb 50vpp.Symptom goes away with p31 on pip disconnected,but get horiz.lines running thru pix.Probably do to sync being on the plug.	Also reading 90v dc on pin 4 of p63/o on pip cba,says 33vdc printed on boardFound ic3203 on pip cba loose.Fixed set.Maybe this might help someone if they get this mod. as it is famous for bad connections. Thanks to Jack Kilroy in Wisconsin.
SONY	KV36FV27	AA2	Audio Missing	Unit has Wireless head phones. Unit has audio through he main speakers but not through the wireless headphones	Checking around the T board we found that the B+ to the board was missing at connector CN401(4). This should be 9 volts. There are no shorts on this line to ground either. But checking at the AK board we found a PNP switch transistor Q451 with ring fractures around the pins. Resolder the transistor corrects the symptom.

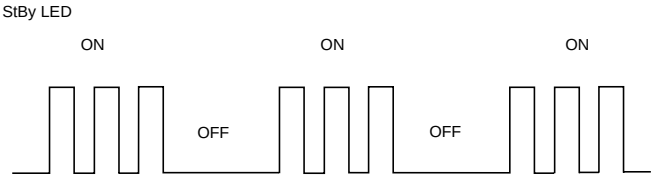
FE-2 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the FE-2 chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

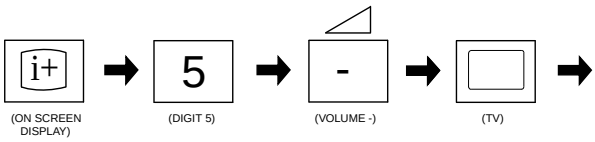
Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
Not Used	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Not Used	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Jungle controller 8 volts error	11

Flash Timing Example : e.g. error number 3



How to enter into Table 2

1. Turn on the main power switch of the TV set and enter into the 'Stanby Mode'.
2. Press the following sequence of buttons on the Remote Commander.



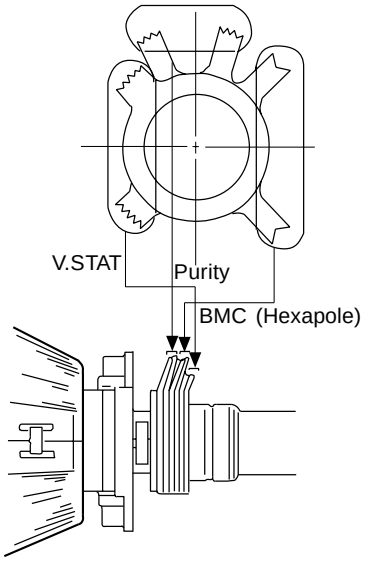
3. The following table will be displayed indicating the error count.

Table 2

ERROR MENU			
E02	OCP	(0, 255)	0
E03	OVP N/A	(0, 255)	0
E04	VSYNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	JUNGLE	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	8V	(0, 255)	0
WORKING TIME			
HOURS			2
MINUTES			11

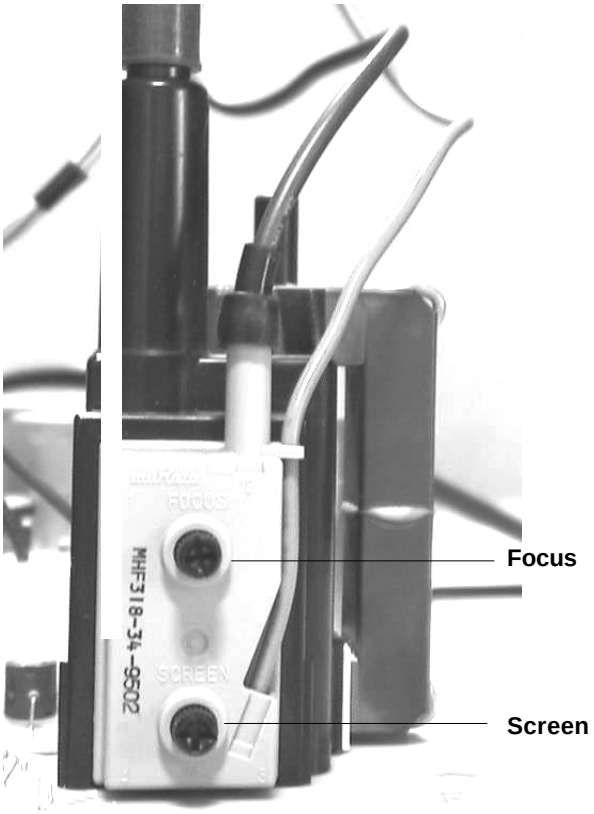
Note: To clear the error count data press '80' on the Remote commander.

Layout of each control



3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the Flyback Transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Enter into the 'Service Mode' by pressing 'TEST', 'TEST' and 'MENU' on the Service Commander.
3. Select 'Service' from the on screen menu display and press the right arrow button on the remote commander.
4. The 'Service' menu will appear on the screen.
   [See Page 19]
5. Set the 'Contrast' to MAX.
6. Set the 'R-Drive' to 25.
7. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
8. Press the 'OK' button to write the data for each item.
9. Set the 'Contrast' to MIN.
10. Adjust the 'G-Cutoff', and the 'R-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
11. Press the 'OK' button to write the data for each item.

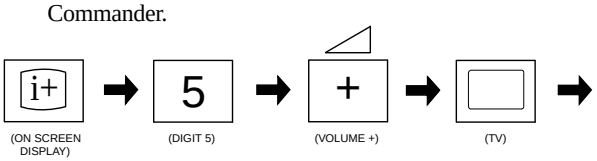
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the suppliedemote Commander RM-887.

How to enter into the Service Mode

1. Turn on the main power switch and enter into the stand-by mode.
2. Press the following sequence of buttons on the Remote Commander.



'TT—' will appear in the upper right corner of the screen. Other status information will also be displayed.

3. Press 'MENU' on the remote commander to obtain the following menu on the screen.

```
Geometry
Service
Design
Status
Sound
IF adjust
Error Menu

FE-2 Stereo v1.30
Factory data    FFh   FFh
MSP Device : MSP3411G
```

4. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
5. Press the right arrow button to enter into the required menu item.
6. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

- Before performing any adjustments ensure that the correct model has been selected in the 'Model Setting' menu.
- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

ERROR MENU

E02	OCP	(0, 255)	0
E03	OVP N/A	(0, 255)	0
E04	VSYNC	(0, 255)	0
E05	IKR	(0, 255)	0
E06	IIC	(0, 255)	0
E07	NVM	(0, 255)	0
E08	JUNGLE	(0, 255)	0
E09	TUNER	(0, 255)	0
E10	SOUNDP	(0, 255)	0
E11	8V	(0, 255)	0

WORKING TIME

HOURS	2
MINUTES	11

SERVICE

Offset-R	(0, 63)	Adj
Offset-G	(0, 63)	Adj
R-Drive	(0, 63)	25
G-Drive	(0, 63)	Adj
B-Drive	(0, 63)	Adj
Peak-Freq	(0, 3)	0
Luma-Delay	(0, 15)	8
SC0	(0, 3)	2
White-Peak	(0, 15)	15
Subcont	(0, 15)	4
Subright	(0, 63)	31
Subcol	(0, 63)	Adj
Subsharp	(0, 63)	31
Cutoff Br.	(0, 63)	60
Br OSD	(0, 15)	10
Br TXT	(0, 15)	9

GEOMETRY

V-Linearity	(0, 63)	Adj
V-Scroll	(0, 63)	32
Left-HBlk	(0, 15)	8
Right-HBlk	(0, 15)	5
V-Angle	(0, 63)	Adj
V-Bow	(0, 63)	Adj
H-Centre	(0, 63)	Adj
H-Size	(0, 63)	Adj
Pin-Amp	(0, 63)	Adj
U-Corner-Pin	(0, 63)	Adj
L-Corner-Pin	(0, 63)	Adj
Pin Phase	(0, 63)	Adj
V-Slope	(0, 63)	35
V-Size	(0, 63)	Adj
S-Correction	(0, 63)	Adj
V-Centre	(0, 63)	Adj
V-Zoom	(0, 63)	23
Magenta	(0, 63)	0

IF ADJUST

AGC Adjust	(-16, +15)	+0
Automute		1
Audio Gain		0
L Gating		0

Sub Brightness Adjustment

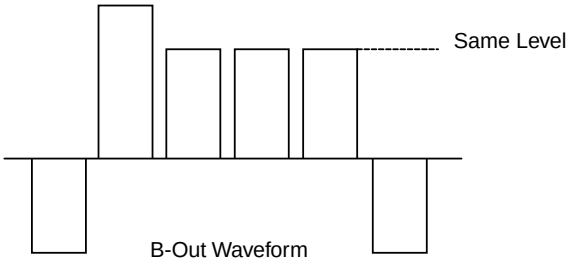
1. Input a Monoscope pattern.
2. Press 'TEST' 'TEST' 13 on the Remote Commander.
3. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

1. Input a video signal that contains a small 100% white area on a black background.
2. Connect an digital voltmeter to Pin 10 of J701 [C Board].
3. Adjust the Sub-Contrast ['TT11'] to obtain a voltage of 95 +0,- 5V.

Sub Colour Adjustment

1. Receive a PAL colour bar signal.
2. Connect an oscilloscope to Pin 5 of CN003 [A Board].
3. Enter into the 'Service' service menu.
4. Adjust the 'Sub Colour' data so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.

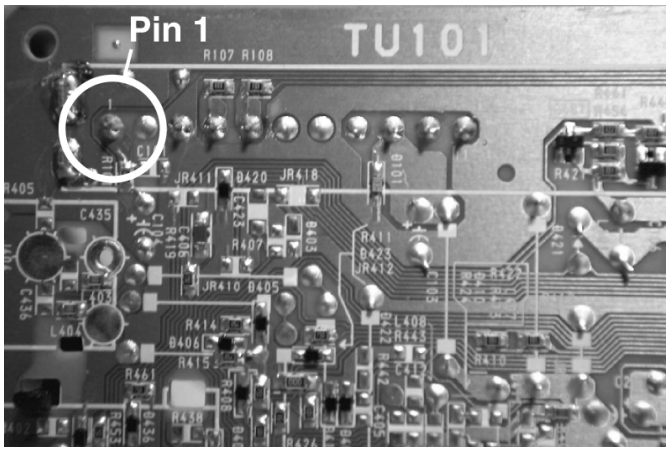


Tuner AGC Adjustment

Note:

There should be no need to adjust the AGC as this is pre-adjusted during manufacture of the FRONTEND. If the AGC does need adjustment then follow steps 1. to 4. below.

1. Receive a signal of 62dBuV / 75 ohm terminated via the tuner antenna socket.
2. Connect a voltmeter to pin1 of TU101 [print side of A Board] or to the AGC pin of CN001 [mount side of A Board].
3. Confirm that the AGC voltage is 3.5volts +/- 0.3volts.
4. If adjustment is required, then re-adjust the AGC variable resistor (located at the top rear of the FRONTEND) to obtain a voltage of 3.5V +/- 0.3V.

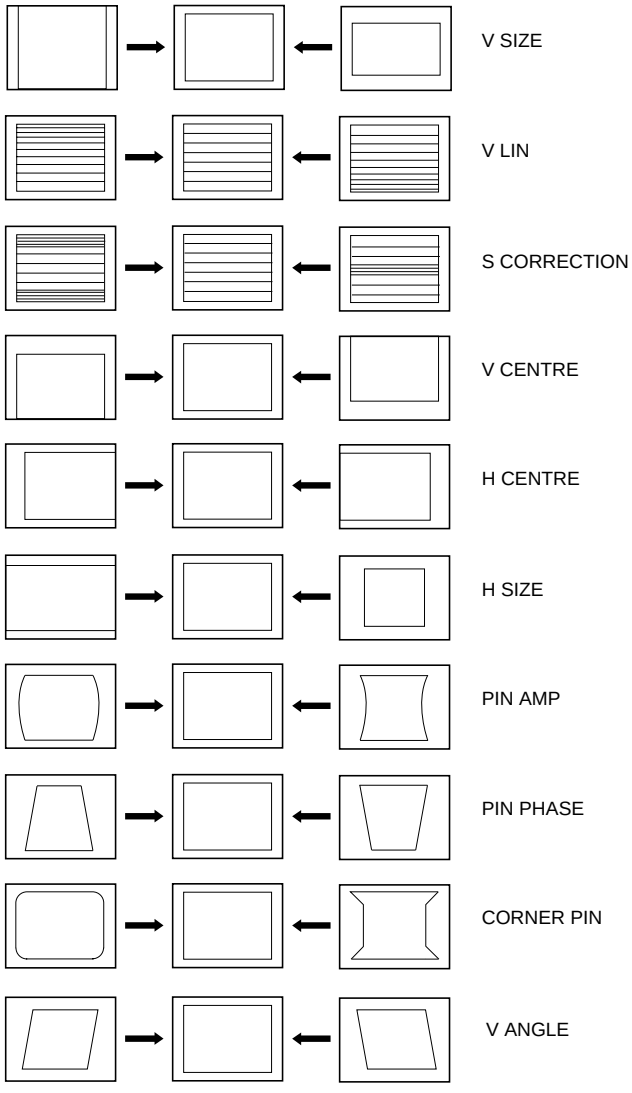


[Print side of A board]

Deflection System Adjustment

1. Enter into the 'Geometry' service menu.
2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY		
V-Linearity	(0, 63)	Adj
V-Scroll	(0, 63)	32
Left-HBlk	(0, 15)	8
Right-HBlk	(0, 15)	5
V-Angle	(0, 63)	Adj
V-Bow	(0, 63)	Adj
H-Centre	(0, 63)	Adj
H-Size	(0, 63)	Adj
Pin-Amp	(0, 63)	Adj
U-Corner-Pin	(0, 63)	Adj
L-Corner-Pin	(0, 63)	Adj
Pin Phase	(0, 63)	Adj
V-Slope	(0, 63)	35
V-Size	(0, 63)	Adj
S-Correction	(0, 63)	Adj
V-Centre	(0, 63)	Adj
V-Zoom	(0, 63)	23
Magenta	(0, 63)	0



4-2. TEST MODE 1:

Test Mode 1 is available by pressing the 'TEST' button once, OSD 'T' appears. The functions described below are available by selecting the indicated keys. The 'T' is released automatically after each command is executed.

KEY	T-MODE FUNCTION
volume +	volume maximum
volume -	Picture minimum
picture +	Picture maximum
picture -	Picture minimum
colour up	colour maximum
colour down	colour minimum
brightness - bright	brightness maximum
brightness - dark	brightness minimum
hue - purplish	hue - purplish
hue - greenish	hue - greenish
sharpness - sharp	sharpness maximum
sharpness - soft	sharpness minimum
balance left	balance full left
balance right	balance full right
treble up	treble maximum
treble down	treble minimum
bass up	bass maximum
bass down	bass minimum

4-4. TEST MODE 2:

Test Mode 2 is available by pressing the 'TEST' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub Brightness adjustment
14	Text H Position adjustment
15	Rotation Coil Test
16	Picture level 50%
19	Factory Mode Enable/Disable
21	Destination ADEKR
22	Destination BL
23	Destination ADEKR
24	Destination U
25	Destination ADEKR
26	Destination BL
27	Destination ADEKR
28	Destination ADEKR
31	Auto Shutoff Enable/Disable
33	Rotation ON/OFF
35	CRT 4:3 <> 16:9 ; Display TV status
36	Velocity Modulation (VM) OFF/ON test
38	G2 adjustment
41	Re-initialise NVM
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound
46	Select Stereo sound
48	Set NVM as non virgin
49	Set NVM as virgin
51	Virtual Dolby on/off
52	Subwoofer / MPB (Bass enhancement) Enable
54	Dot structure C/M (chroma trap)ination ADEKR
55	Tuner selection (SONY/ALPS)
56	BBE enable/disable
57	BBE menu line enable/disable
61	Auto AGC Adjustment
62	AM from baseband enable/disable
63	Enable/Disable YC3 connector
64	Enable/Disable RGB priority
65	RGB auto-detect enable/disable
66	On timer enable/disable
67	Manual AGC Adjustment
68	Enable/Disable X26 countermeasure (N problem)
69	Enable/Disable ACI feature
71	Force PAL video
72	Un-force PAL (restore normal video condition)
73	Enable Zweiton D/K2 system (6.5/6.74)
74	Enable Zweiton D/K3 system (6.5/5.74)
78	Balance full left
79	Balance full right
87	Local keys test
89	Enable/Disable watchdog
91	Set 14:9 zoom mode
92	Set SMART zoom mode
93	Set 16:9 zoom mode
94	Set ZOOM mode
95	Set 4:3 zoom mode
99	Display Error and Working Time menu

USEFUL INFO.

Error reader.
The BE-3D chassis supports the use of the Error Reader. This jig, is available under part number S-188-900-10 (price code S).

The displayed code shows the actual error of the TV set. Refer to the service manual or the table below for an explanation of those codes.

ERROR CODES
02 - Protection circuit trip <ANY TIME>
03 - IIC SCL LOW <POWER UP ONLY>
04 - IIC SDA LOW <POWER UP ONLY>
05 - IIC SDA and SCL LOW <POWER UP ONLY>
06 - Jungle/chroma controller no acknowledge <POWER UP ONLY>
07 - Video switch no acknowledge <POWER UP ONLY>
08 - Tuner no acknowledge
09 - MSP no acknowledge
10 - NVM no acknowledge
11 - M3L TXD LOW <POWER UP ONLY>
12 - M3L RXD LOW <POWER UP ONLY>
13 - M3L ENABLE LOW <POWER UP ONLY>
14 - M3L TXD AND RXD LOW <POWER UP ONLY>
15 - Compact Text test fail <POWER UP ONLY>
16 - AV switch cannot power on reset
17 - Cannot initialise jungle
18 - NVM acknowledge fail after initialisation
19 - Multiple devices with no acknowledge <POWER UP ONLY>
20 - Compact Text run-time failure
21 - AVSWITCH response failure after power up
22 - JUNGLE/CHROMA controller response failure after power up
23 - Compact Text does not respond
24 - Sound processor run time failure
25 - M3L bus clock low time-out after data sent (run time failure)
26 - M3L bus clock low time-out afetr data sent (power up)
27 - M3L bus clock low time-out afetr data sent (initialization)
28 - DSP run-time failure.

Replacement of HV transformer.
Two types of high voltage transformer are used (removable or fixed focus cable). When replacing a line transformer, replace using the original type.

Type	Focus cable	Part no.
A	Removable	1-453-169-12
B	Fixed	1-453-220-11

DEFLECT

Lines tearing when hot.
[32in models only]. Replace line driver transformer T804.

No sync in TXT mode.
Replace IC1001.

PICTURE

Horizontal interference in picture during first half hour.
IC606 is defective. Therefor unstable +9V (pin 3 of IC606). Replace 9V regulator IC606.
Ref. Description Location Part no.
IC606 LM2940T-90 D-board PSU 8-759-267-25

Visible arcing interference on screen when appliance does function. Intermittently switches off when switched on.
Replace line output transformer T803.

Partially blanked horizontally.
Check zener diode D817 (RD5.6ESB2) in blanking circuit, for leaks.

Overbright, nearly negative picture.
Access service mode and enter TT07 to clear.

AUDIO

Hum and/or buzz of the headphones and/or speaker when vol. is low.
Deflection unit generates interference. On board A, solder side, add a thick wire AWG18 200mm long between pins 6,7 and 8 of IC203 and pins 29 and 30 of CN1. Given its critical position, the wire must be kept away from board A.
Part no. Ref.
190090227 Wire AWG18

No sound. Headphones OK.
Fau;t 1: [PS6001 O/C]. Replace audio output chip IC1200 (TDA7264).

Distorted or loud crackling from audio.
Check audio demodulator/processor chip IC202 (MSP3410).

POWER

EHT comes up briefly then nothing. No error code.
[Excess current protection system operating]. Check line output transformer T803.

Intermittently switches off when switched on. Visible arcing interference on screen when appliance does function.
Replace line output transformer T803.

Locks when hot.
Replace IC202 (MSP3410).

Shuts down when hot.
Replace IC202 (MSP3410).

FUNCTION

No TXT. No OSD.
Check zener diode D817 (5.1V) on main PCB.

Comes on then switches to standby. Standby LED flashes twice.
(1) Check field output chip IC500 (STV9379).
(2) [OK if D505 disconnected]. Check zener diode D505 (MTZJT7736A) for leaks.
(3) [No change if D505 disconnected]. Replace memory chip NVM IC2.

www.rtv-horvat-dj.hr

Does not got into standby mode completely; picture disappears but line continues to run.
(1) Check Q602, Q603 and Q604 in standby switching circuit. Check reservoir capacitor C615.
(2) [Above components replaced; HT not at 135V]. Replace error detector chip IC602 (SE135N).

Pulses in and out of standby. RY600 clicks each time.
Check Q601 (2SC3852A), D603 (6.8V) zener and R634 (22R) on primary side of PSU.

Degaussing incomplete.
Replace relay RY600 with part number 1-755-018-11.

TUNING/MEMORY

Intermittently channels change.
Replace tactile switches S9001 and S9002 on D board.

GEOMETRY

E-W bowing. Excessive width.
Check R870 (1R/1W).

OTHER

No OSD. No TXT.
Check zener diode D817 (5.1V) on main PCB.

Intermittently volume bar appears.
Replace tactile switches S9001 and S9002 on D board.

Incomplete or messy OSD and menus. TXT OK.
Replace IC1001.

www.rtv-horvat-dj.hr

SONY

Servicehilfe

Datum	Ref.-Nr.	Modell	BC
13.03.98	**TV01998**	**AE-4,BC-4, BE-2, BE-2A, BE-3B, BE-3D, BE-4, BE-4A, BE-5, TE-1**	
Beanstandung **Keine Funktion, Gerät setzt aus, etc.**			IRIS 1151

SYMPTOM

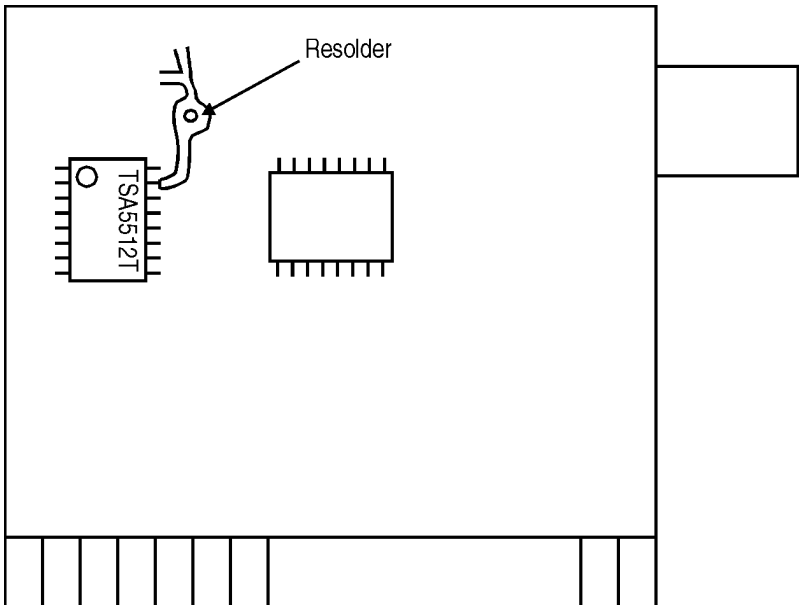
Keine Funktion, Gerät setzt aus, etc.

URSACHE

Taktfehler der I^2C-Bus-Signale (SDL und SCL) infolge einer Fehlfunktion des Tuners BTP-EC411 (8-598-045-00 oder 8-598-045-01).

ABHILFE

Im Tuner den Erdungsanschluß bei TSA5512T (PLL) wie gezeigt nachlöten.



ANMERKUNG

Die Abhilfe wurde ab dem Produktionslos Faxxxx vorgenommen (ab Mitte Dez. ’97).

ANFALLENDE MODELLE

Ausschließlich die mit dem Tuner BTP-EC411 ausgestatteten Geräte.